

Mr. James Saric
Remedial Project Manager
USEPA Region 5
77 West Jackson Boulevard (SR-6J)
Chicago, IL 60604-3507

ARCADIS
10559 Citation Drive
Suite 100
Brighton
Michigan 48116
Tel 810.229.8594
Fax 810.229.8837
www.arcadis-us.com

Subject:
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam (March 2010)

SEDIMENTS

Dear Jim:

Date:
April 15, 2010

Attached is the 37th monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Supplemental Remedial Investigation/Feasibility Study (SRI/FS) – Area 1. This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). If you have any questions, please do not hesitate to contact me.

Contact:
Michael J. Erickson, P.E.

Sincerely,

Phone:
810.225.1924

ARCADIS

Email:
michael.erickson@arcadis-us.com



Our ref:
B0064539.0000.00014
#2

Michael J. Erickson, P.E.
Vice President

MJE/plf
Attachment

Copies:
Michael Berkoff, USEPA
Sam Chummar, USEPA
Sam Borries, USEPA
Paul Bucholtz, MDNRE (with Attachment A)
Jeff Keiser, CH2M HILL (with Attachment A)
Todd Goeks, NOAA (with Attachment A)
Richard Gay, Weyerhaeuser Company
Martin Lebo, Weyerhaeuser Company
Kathy Huibregtse, RMT Inc. (with Attachment A)
J. Michael Davis, Esq., Georgia-Pacific LLC
Garry Griffith, P.E., Georgia-Pacific LLC
Paul Montney, P.E., Georgia-Pacific LLC

**MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE SRI/FS
AREA 1 (MORROW DAM TO PLAINWELL DAM)**

REPORT #37, MARCH 2010

**PREPARED BY ARCADIS U.S., INC.
APRIL 15, 2010**

ON BEHALF OF GEORGIA-PACIFIC LLC (GEORGIA-PACIFIC)

SUBMITTED TO

**JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA)**

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #37, MARCH 2010

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the AOC and SOW

- On March 24, USEPA forwarded to ARCADIS its approval of the revised *Multi-Area FS Technical Memorandum – Evaluation of Candidate Technologies and Testing Needs* (Section 4.1 of SOW) and the revised *Multi-Area FS Technical Memorandum - Preliminary Remedial Technology Screening* (Section 1.2.2.1 of SOW).
- On March 31, ARCADIS forwarded to USEPA the final *Multi-Area FS Technical Memorandum – Evaluation of Candidate Technologies and Testing Needs* and the final *Multi-Area FS Technical Memorandum - Preliminary Remedial Technology Screening*.

Data Collected and Field Activities Conducted during the Period

- On March 1, ARCADIS notified USEPA of the schedule for the quarterly groundwater sampling in the former Plainwell Impoundment Time Critical Removal Action (TCRA) Area. This sampling is discussed in Section 3.4.6 of the Area 1 SRI/FS Work Plan.
- On March 2, ARCADIS segmented additional sediment cores from the hot spot assessment (Table A), and submitted the samples to TestAmerica Laboratories, Inc. (TestAmerica) for PCB analysis (Table B).
- On March 2 and 3, ARCADIS segmented additional sediment cores from the Crown Vantage landfill work (Table C), and submitted the samples to TestAmerica for PCB analysis (Table D).
- On March 8, 12, 15, 17, 22, 25, 29, and 31, ARCADIS monitored the groundwater and surface water elevations (twice a week) to confirm groundwater flow towards the river in the former Plainwell Impoundment TCRA Area for the quarterly sampling (Table E).
- On March 18 and 26, ARCADIS forwarded to USEPA the groundwater and surface water elevations from the former Plainwell Impoundment TCRA Area.
- On March 25, staff gauge SG-1 in the former Plainwell Impoundment was repaired (Table F).

Laboratory Data Received during the Period

- On March 1, the National Oceanic and Atmospheric Administration provided an analytical data database update to ARCADIS.
- On March 1, ARCADIS received from TestAmerica the remaining PCB analytical results for the Crown Vantage investigation sediment samples from the initial round of sampling (Sample Delivery Group [SDG] KAL503) (Table G).

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- On March 1, 3, 4, 5, 8, 10, 16, 18, 19, 22, and 23, ARCADIS received from TestAmerica a portion of the PCB analytical results for the filleted fish samples collected from locations throughout Areas 1 through 6 in October 2009 and forwarded to the lab in January 2010 (SDGs KAL512, KAL515, KAL516, KAL519, KAL520, and KAL523 through KAL531) (Table H).
- On March 31, ARCADIS received from TestAmerica a portion of the PCB analytical results for the segmented additional sediment cores from the hot spot assessment (Table I) and Crown Vantage landfill work (Table J).
- Validated data for the laboratory SDGs received in January are included in this monthly report. These data include the remainder of the PCB analytical results for the hot spot assessment sediment samples that were collected in November 2009 (SDGs KAL489, KAL490, KAL491, KAL492, KAL494, KAL496, KAL 497, and KAL498) (Table K), the PCB results from the 15 groundwater and two surface water samples collected in the former Plainwell Impoundment TCRA Area in December (SDG KAL507) (Table L), and the PCB results from a portion of the Crown Vantage investigation sediment samples (SDGs KAL499, KAL500, and KAL501) (Table M). In accordance with Section 2.1 of the SOW, paper and electronic copies of these laboratory data are included as part of the monthly progress reports. Attachment A contains the validation reports for these data packages. The enclosed compact disk also contains the electronic data deliverable for these data.

Problems

- On March 12, 15, and 17, the water elevation measurements collected at MW-1 and SG-1 showed a flow reversal in the area of the former Plainwell Dam. According to the March 4, 2009 letter from ARCADIS to USEPA, groundwater must be documented as flowing toward the river for a minimum period of two weeks before sampling is conducted. USEPA was notified on March 18.
- Staff gauge SG-1 was damaged by ice prior to the December 18, 2009 monitoring event.

Actions Taken to Correct Problems

- The groundwater sampling in the former Plainwell Impoundment scheduled for the week of March 22 will be deferred until at least the week of April 5.
- Staff gauge SG-1 was replaced and re-surveyed prior to the groundwater sampling event.

Developments Anticipated during the Next Two Reporting Periods

- Validated data for the laboratory SDGs received in February will be included in the April monthly report. These data include a portion of the PCB analytical results for the Crown Vantage investigation sediment samples (SDGs KAL502 and KAL504), the remainder of the PCB analytical results for the off-channel

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areas investigation sediment samples collected in December 2009 (SDGs KAL508 and KAL509), the PCB analytical results for the off-channel areas investigation sediment samples collected in January 2010 (SDGs KAL510, KAL511, KAL514, KAL517, KAL521, and KAL522), and a portion of the PCB analytical results for the filleted fish samples collected from locations throughout Areas 1 through 6 in October 2009 and forwarded to the lab in January 2010 (KAL513).

- During the week of April 5, ARCADIS is scheduled to sample 15 wells and collect two surface water samples from the river in the former Plainwell Impoundment TCRA Area. It has been proposed to USEPA and the Michigan Department of Natural Resources and Environment (MDNRE) to discontinue groundwater sampling on the basis of four quarters of samples from 2009, which were all non-detect for PCBs; however, arrangements for this sampling event are being made while discussions continue concerning this proposed discontinuation of sampling.
- On April 6, ARCADIS is scheduled to submit the Response to USEPA and MDNRE Comments on the *Area 1 Work Plan Supplement: Baseline Ecological Risk Assessment Work Plan*.
- By April 12, ARCADIS expects to revise and resubmit the *Area 1 Work Plan Supplement: Baseline Ecological Risk Assessment Work Plan*.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #37, March 2010

Table A — Hot Spot Investigation — Sediment Cores Processed in March 2010

Location	Interval (inches)	Description
KRT5-G	0 - 4	brown fine sand, trace organics (twigs, leaves)
KRT5-G	4 - 16	dark brown fine sand, trace to little silt, trace organics (roots, shells)
KRT5-H	0 - 4	brown grading to dark gray brown, fine to medium sand, trace coarse sand, trace organics (vegetation, leaves, twigs)
KRT5-H	4 - 11	dark gray clayey silt, trace organics (wood), slight odor
KRT5-H	11 - 14	dark gray silty fine sand, trace organics (wood, twigs), slight odor
KPT19-A	0 - 5	brown fine to medium sand, trace coarse sand, trace organics (leaves and shells)
KPT19-A	5 - 18	gray fine to medium sand, trace coarse sand, trace organics (vegetation, leaves, twigs, shells)
KPT19-A	18 - 22	dark gray clayey silt, slight odor
KPT19-A	22 - 30	dark gray brown fine sand, little fine to medium gravel, trace silt, trace shell concretions, trace organics (wood)
KPT19-A	30 - 33	gray brown fine to medium sand, little coarse sand, trace fine to medium gravel, trace organics (shells)
KPT19-I	0 - 12	brown grading to gray brown fine to medium sand, trace coarse sand, trace organics (shells)
KPT19-I	12 - 15	dark gray fine sand, trace organics (shells and wood)
KPT19-I	15 - 26	dark gray silt, trace to little clay, trace organics (vegetation), trace plastic
KPT19-I	26 - 29	gray silty clay, trace organics (vegetation)
KPT19-I	29 - 31	dark gray silt, trace to little clay, trace organics (vegetation), trace plastic, slight odor from 12" to bottom
KPT19-J	0 - 4	dark brown fine sand, trace organics (leaves and twigs)
KPT19-J	4 - 27	interbedded gray brown, brown, dark gray fine to medium sand, trace coarse sand, trace fine gravel, trace organics (shells and wood)
KPT19-J	27 - 32	dark gray brown fine sand, trace organics (shells), trace silt
KPT19-J	32 - 38	dark gray clayey silt, trace organics, roots, slight sheen and odor
S-IM1-1	0 - 6	brown fine sand, trace organics (leaves), trace silt
S-IM1-1	6 - 11	gray brown fine sand, trace organics (leaves), trace silt
S-IM1-1	11 - 12	dark brown clayey silt, trace organics (leaves)
S-IM1-1	12 - 14	gray fine sand
S-IM1-1	14 - 16	gray brown clay, little silt, trace highly degraded organics
S-IM1-1	16 - 19	gray brown fine sand, trace silt, trace organics (shells)
S-IM1-1	19 - 22	dark brown silty fine sand, trace organics (leaves, twigs, wood)
S-IM1-2	0 - 2	dark gray brown fine sand, trace coarse sand, trace fine gravel, trace organics (leaves)
S-IM1-2	2 - 9	dark gray brown fine sand, little silt, trace organics (wood, twigs, roots)
S-IM1-2	9 - 15	dark gray brown fine sand, trace organics (roots, twigs)
S-IM1-2	15 - 17	dark gray brown fine to medium sand, trace coarse sand, trace fine gravel, trace organics (shells)

Notes:

Samples collected in October and November 2009, and have been held in frozen storage at ARCADIS' Kalamazoo field office.

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Table B — Hot Spot Investigation — Sediment Samples Processed in March 2010

Location	Sample ID	Interval (inches)
KRT5-G	K56958	0 - 2
	K56959	2 - 6
	K56960	6 - 12
	K56961	12 - 16
KRT5-H	K56953	0 - 2
	K56954	2 - 4
	K56955	4 - 6
	K56956	6 - 11
	K56957	11 - 14
KPT19-A	K56931	0 - 2
	K56932	2 - 6
	K56933	6 - 12
	K56934	12 - 18
	K56935	18 - 22
	K56936	22 - 24
	K56937	24 - 33
KPT19-I	K56938	0 - 2
	K56939	2 - 6
	K56940	6 - 12
	K56941	12 - 15
	K56942	15 - 24
	K56943	24 - 26
	K56944	26 - 29
	K56945	29 - 31
KPT19-J	K56946	0 - 2
	K56947	2 - 6
	K56948	6 - 12
	K56949 ¹	12 - 24
	K56950 [K56952]	24 - 32
	K56951	32 - 38
S-IM1-1	K56962	0 - 2
	K56963	2 - 6
	K56964	6 - 12
	K56965	12 - 14
	K56966	14 - 16
	K56967	16 - 19
	K56968	19 - 22
S-IM1-2	K56969	0 - 2
	K56970	2 - 6
	K56971	6 - 12
	K56972	12 - 17

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

Samples sent to TestAmerica Laboratories, Inc. for PCB, TOC, and grain size analysis.

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Table C — Crown Vantage Landfill Area — Sediment Cores Processed in March 2010

Location	Date Processed	Depth Interval (in)	Description
CVT-A-1	3/3/2010	0 - 12	dark brown fine sand, little organics (wood, leaves, twigs), little silt
		12 - 20	dark gray brown silty fine sand, trace organics (twigs, roots, leaves and shells)
CVT-A-2	3/3/2010	0 - 15	dark brown fine sand and silt, little to some organics (wood, twigs, leaves) trace gray brown silt at 10-15"
CVT-B-3	3/3/2010	0 - 11	dark gray brown silty fine sand, trace organics (leaves, twigs, shells), trace medium gravel
CVT-C-3	3/3/2010	0 - 2	dark gray fine sand, trace silt, trace organics (leaves, twigs)
		2 - 4	light gray brown clayey silt, little fine sand, trace organics (twigs)
		4 - 8	gray brown fine sand, trace organics (twigs), trace brick
		8 - 18	dark brown highly degraded organic silt (peat), trace light gray clayey silt seam at 15", 1/4" thickness
CVT-E-2	3/2/2010	0 - 1	brown silt, little organics (leaves, twigs), trace fine sand
		1 - 23	gray brown fine to medium sand, trace coarse sand, trace organics (shells, twigs, leaves)
		23 - 27	gray fine sand, trace silt, trace organics (twigs)
		27 - 37	dark gray brown fine sand, little silt, trace fine gravel, trace organics (twigs, wood, shells)
		37 - 39	dark gray fine sand, trace medium to coarse sand, trace organics (roots), trace fine gravel
CVT-E-3	3/2/2010	0 - 2	dark brown moderately to highly degraded organics (roots, leaves, twigs), and silt
		2 - 5	brown to dark brown fine sand, trace silt, trace organics (twigs)
		5 - 13	dark gray brown clayey silt, trace fine sand, trace fine to medium gravel, trace organics (twigs)
		13 - 23	dark gray fine sand, trace silt, trace organics (twigs)
		23 - 32	gray brown fine to medium sand, little coarse sand, trace fine to medium gravel
CVT-F-3	3/2/2010	0 - 5	dark brown silty fine sand, little organics (leaves, twigs)
		5 - 13	dark gray brown fine sand, trace silt, trace fine to medium gravel, trace glass
CVT-H-3	3/2/2010	0 - 2	brown silt, little fine sand, trace clay, trace organics (leaves, twigs)
		2 - 14	dark gray brown silty fine sand, trace organics (roots)
		14 - 22	dark brown clayey silt, trace organics (shells, roots, leaves)
CVT-I-1	3/2/2010	0 - 3	dark brown fine sand, trace silt, trace organics (leaves, wood, twigs)
		3 - 11.5	dark brown fine sand, trace medium to coarse sand, trace silt, trace organics (twigs, shells)
		11.5 - 13	dark gray sandy silt
		13 - 18	gray fine to medium sand, little coarse sand, trace organics (shells)
		18 - 20	dark gray fine sand, trace silt, large piece of foil at 18-24"
		20 - 31	dark gray fine to medium sand, trace coarse sand, trace fine to medium gravel, trace organics (twigs, shells)
CVT-I-2	3/2/2010	0 - 2	brown fine to medium sand, trace organics (leaves)
		2 - 5	dark gray silt, trace clay and fine sand
		5 - 7	dark gray brown fine sand, trace medium sand, trace organics (twigs, shells, leaves)
		7 - 9.5	dark brown silt, little fine sand, trace organics (twigs, shells)
		9.5 - 10.5	dark gray brown silty clay, trace organics (twigs)
		10.5 - 12	dark gray brown fine sand, trace silt
		12 - 14	dark gray brown clayey silt, trace fine sand, small piece of foil at 15-24"
		14 - 29	dark gray brown fine sand, trace medium sand, trace silt, trace organics (twigs, wood, shells)

Notes:

Samples collected in December 2009, and have been held in frozen storage at ARCADIS' Kalamazoo field office.

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Table D — Crown Vantage Landfill Area — Sediment Samples Processed in March 2010

Location	Sample ID	Interval (inches)
CVT-A-1	K57015	0 - 2
	K57016	2 - 6
	K57017	6 - 12
	K57018	12 - 20
CVT-A-2	K57019	0 - 2
	K57020	2 - 6
	K57021	6 - 12
	K57022	12 - 15
CVT-B-3	K57012	0 - 2
	K57013	2 - 6
	K57014	6 - 11
CVT-C-3	K57007	0 - 2
	K57008	2 - 4
	K57009	4 - 6
	K57010	6 - 12
	K57011	12 - 18
CVT-E-2	K57000	0 - 2
	K57001	2 - 6
	K57002	6 - 12
	K57003 [K57006]	12 - 24
	K57004 ¹	24 - 36
	K57005	36 - 39
CVT-E-3	K56994	0 - 2
	K56995	2 - 6
	K56996	6 - 12
	K56997 [K56999]	12 - 24
	K56998 ¹	24 - 32
CVT-F-3	K56991	0 - 2
	K56992	2 - 6
	K56993	6 - 13
CVT-H-3	K56986	0 - 2
	K56987	2 - 6
	K56988 ¹	6 - 12
	K56989 [K56990]	12 - 22
CVT-I-1	K56973	0 - 2
	K56974	2 - 6
	K56975	6 - 12
	K56976	12 - 18
	K56977	18 - 24
	K56978	24 - 31
CVT-I-2	K56979	0 - 2
	K56980	2 - 6
	K56981	6 - 12
	K56982	12 - 15
	K56983 [K56985]	15 - 24
	K56984 ¹	24 - 29

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

Samples sent to TestAmerica Laboratories, Inc. for PCB, TOC, and grain size analysis.

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Table E — Water Elevations — Wells and Staff Gauges — Plainwell TCRA Area

Location	Water Level Elevation / Date							
	3/8/10	3/12/10	3/15/10	3/17/10	3/22/10	3/25/10	3/29/10	3/31/10
Staff Gauges								
SG-1	-	-	-	-	-	707.28	707	707.1
SG-2	700.24	701.52	702.3	702.4	700.8	700.6	700.3	700.4
SG-3	-	-	-	-	-	-	-	-
SG-4	700.5	701.78	702.55	702.66	701.18	700.85	700.5	700.65
SG-5	702.06	703.12	703.8	703.88	702.55	702.3	702	702.15
Monitoring Wells								
MW-1	700.81	701.77	702.35	702.59	701.47	701.17	700.88	700.92
MW-2	700.99	701.95	702.53	702.79	701.67	701.37	701.08	701.13
MW-3	701.45	702.43	703.04	703.3	702.1	701.78	701.51	701.56
MW-4	701.94	702.84	703.46	703.75	702.59	702.29	701.96	702.04
MW-5	702.28	703.2	703.83	704.07	702.89	702.59	702.33	702.38
MW-6	700.86	701.83	702.41	702.66	701.54	701.24	700.95	701
MW-7	701.2	702.2	702.77	703.02	701.85	701.55	701.26	701.32
MW-8	701.59	702.56	703.21	703.46	702.2	701.92	701.64	701.69
MW-9	701.96	702.54	703.16	703.58	702.8	702.45	702.18	702.14
MW-10	703.74	704.62	705.17	705.36	704.39	704.12	703.86	703.88
MW-11	704.36	705.13	705.73	705.94	704.99	704.73	704.48	704.49
MW-12	705.55	706.17	707.07	707.17	706.25	705.99	705.71	705.73
MW-13	704.6	705.41	705.88	706.24	705.29	705.04	704.78	704.77
MW-14	704.96	705.77	706.27	706.49	705.6	705.35	705.11	705.13
MW-15	705.21	705.99	706.41	706.68	705.92	705.68	705.43	705.41
Groundwater - Surface Water Gradients (ft/ft)								
MW-5 - SG-5	0.22	0.08	0.03	0.19	0.34	0.29	0.33	0.23
MW-1 - SG-4	0.31	-0.01	-0.20	-0.07	0.29	0.32	0.38	0.27

Notes:

Staff gauge SG-1 was damaged by ice prior to the December 18, 2009 monitoring event and replaced and re-surveyed prior to the March 25, 2010 monitoring event.

Staff gauge SG-3 was not read because ARCADIS did not have access to the private property (Aggregate Industries) where SG-3 is located.

Positive gradient indicates groundwater flow to river.

Negative surface water gradients were observed during the March 12, 15, and 17 monitoring events, which occurred during a high flow even in the river. Two additional weeks of monitoring were performed to ensure gradient exists in which groundwater is traveling toward the river. Elevation data collected on March 22, 25, 29, and 31 confirmed a positive gradient indicating groundwater flow to river.

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Table F — Coordinates and Elevations — Staff Gauge Replaced in the Plainwell TCRA Area

Staff Gauge ID	Coordinates		Elevation (ft)	Remarks
	Northing	Easting		
SG-01_09085	350394.4	12775769.3	707.28	

Notes:

Coordinates are based on the North American Datum of 1983, Michigan South Zone.

Elevations are based on the National Geodetic Vertical Datum of 1929.

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Table G — Crown Vantage Area — Sediment Samples Collected in December 2009 — Data Received in March 2010

Location	Sample ID	Depth Interval (in)	SDG	Date SDG Received from Lab
CVT-03-05	K56725 ¹ [K56726]	8 - 23	KAL503 [KAL503]	3/1/10 [3/1/10]
CVT-04-01	K56727	0 - 2	KAL503	3/1/10
	K56728	2 - 6	KAL503	3/1/10
	K56729	6 - 12	KAL503	3/1/10
	K56730	12 - 19	KAL503	3/1/10
CVT-04-03	K56731	0 - 2	KAL503	3/1/10
	K56732	2 - 6	KAL503	3/1/10
	K56733	6 - 9	KAL503	3/1/10
	K56734	9 - 16	KAL503	3/1/10
	K56735	16 - 19	KAL503	3/1/10
CVT-05-03	K56736	0 - 2	KAL503	3/1/10
	K56737	2 - 6	KAL503	3/1/10
	K56738	6 - 12	KAL503	3/1/10
	K56739	12 - 16	KAL503	3/1/10
	K56740	16 - 21	KAL503	3/1/10
CVT-05-05	K56741	0 - 2	KAL503	3/1/10
	K56742	2 - 6	KAL503	3/1/10
	K56743	6 - 12	KAL503	3/1/10
	K56744 [K56745]	12 - 15	KAL503 [KAL504]	3/1/10 [2/9/10]

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

Samples sent to TestAmerica Laboratories, Inc. for PCB, TOC, and grain size analysis.

SDG - Sample delivery group.

Georgia-Pacific LLC
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Table H — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
Morrow Lake	ABSA 2	Smallmouth Bass	K41060	KAL512	3/1/10
			K41061	KAL512	3/1/10
			K41062	KAL512	3/1/10
			K41063	KAL512	3/1/10
			K41357	KAL530	3/18/10
			K41358	KAL530	3/18/10
			K41359	KAL530	3/18/10
			K41360	KAL530	3/18/10
			K41361	KAL530	3/18/10
			K41362	KAL530	3/18/10
Near D Ave	ABSA 4	Common Carp	K41063	KAL530	3/18/10
			K41071	KAL512	3/1/10
			K41072	KAL512	3/1/10
			K41073	KAL512	3/1/10
			K41074	KAL512	3/1/10
			K41075	KAL512	3/1/10
			K41076	KAL512	3/1/10
			K41077	KAL512	3/1/10
			K41078	KAL512	3/1/10
			K41079 ¹	KAL512	3/1/10
Near D Ave	ABSA 4	Smallmouth Bass	K41080	KAL512	3/1/10
			K41081	KAL512	3/1/10
			K41146	KAL516	3/5/10
			K41147	KAL516	3/5/10
			K41148	KAL516	3/5/10
			K41149	KAL516	3/5/10
			K41150	KAL516	3/5/10
			K41151	KAL516	3/5/10
			K41152	KAL516	3/5/10
			K41153	KAL516	3/5/10
Near D Ave	ABSA 4	Common Carp	K41154	KAL516	3/5/10
			K41155	KAL516	3/5/10
			K41156	KAL516	3/5/10
			K41157	KAL516	3/5/10
			K41158	KAL516	3/5/10
			K41159	KAL516	3/5/10
			K41160 ¹	KAL516	3/5/10
			K41161	KAL519	3/4/10
			K41162	KAL519	3/4/10
			K41163	KAL519	3/4/10
Near D Ave	ABSA 4	Pumpkinseed	K41164	KAL519	3/4/10
			K41165 ¹	KAL519	3/4/10
			K41166	KAL519	3/4/10
			K41167	KAL519	3/4/10
			K41136	KAL515	3/3/10
			K41137	KAL515	3/3/10
			K41138	KAL515	3/3/10
			K41140	KAL516	3/4/10

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Table H — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
Near D Ave (Cont.)	ABSA 4 (Cont.)	Pumpkinseed (Cont.)	K41141	KAL516	3/4/10
			K41142	KAL516	3/4/10
			K41143	KAL516	3/4/10
			K41144	KAL516	3/4/10
			K41277	KAL526	3/16/10
			K41278	KAL526	3/16/10
			K41279	KAL526	3/16/10
		Rock Bass	K41125	KAL515	3/3/10
			K41127	KAL515	3/3/10
			K41128	KAL515	3/3/10
			K41129	KAL515	3/3/10
			K41131	KAL515	3/3/10
			K41132	KAL515	3/3/10
			K41133	KAL515	3/3/10
			K41134	KAL515	3/3/10
			K41274	KAL526	3/16/10
			K41275	KAL526	3/16/10
			K41276	KAL526	3/16/10
		Black Bullhead	K41170	KAL519	3/4/10
			K41273	KAL526	3/16/10
		Brown Bullhead	K41171	KAL519	3/4/10
			K41265	KAL525	3/10/10
			K41266	KAL525	3/10/10
			K41267	KAL525	3/10/10
			K41270	KAL526	3/16/10
		Yellow Bullhead	K41268	KAL526	3/16/10
			K41269	KAL526	3/16/10
			K41271	KAL526	3/16/10
			K41272	KAL526	3/16/10
Otsego City Dam	ABSA 6	Smallmouth Bass	K41313 ¹	KAL528	3/19/10
			K41314	KAL528	3/19/10
			K41315	KAL528	3/19/10
			K41316	KAL528	3/19/10
			K41317	KAL528	3/19/10
			K41318	KAL528	3/19/10
			K41319	KAL528	3/19/10
			K41320	KAL528	3/19/10
			K41321	KAL528	3/19/10
			K41322	KAL528	3/19/10
			K41323	KAL528	3/19/10
		Common Carp	K41280	KAL526	3/16/10
			K41281	KAL526	3/16/10
			K41282	KAL526	3/16/10
			K41283 ¹	KAL526	3/16/10
			K41284	KAL526	3/16/10
			K41285	KAL526	3/16/10
			K41286	KAL526	3/16/10
			K41287	KAL526	3/16/10

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Table H — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
Otsego City Dam (Cont.)	ABSA 6 (Cont.)	Common Carp (Cont.)	K41288 ¹ K41289 K41290	KAL527 KAL527 KAL527	3/23/10 3/23/10 3/23/10
		Bluegill	K41302 K41303 K41304 K41305 K41306 K41307 K41308 K41309 K41310 K41311 K41312	KAL527 KAL527 KAL527 KAL527 KAL527 KAL527 KAL528 KAL528 KAL528 KAL528 KAL528 KAL528	3/23/10 3/23/10 3/23/10 3/23/10 3/23/10 3/23/10 3/19/10 3/19/10 3/19/10 3/19/10 3/19/10 3/19/10
		Rock Bass	K41291 K41292 K41293 K41294 K41295 K41296 K41297 K41298 K41299 K41300 K41301	KAL527 KAL527 KAL527 KAL527 KAL527 KAL527 KAL527 KAL527 KAL527 KAL527 KAL527	3/23/10 3/23/10 3/23/10 3/23/10 3/23/10 3/23/10 3/23/10 3/23/10 3/23/10 3/23/10 3/23/10
		Black Bullhead	K41334	KAL529	3/1/10
		Brown Bullhead	K41326 K41328 K41329 K41330 K41331	KAL528 KAL529 KAL529 KAL529 KAL529	3/19/10 3/1/10 3/1/10 3/1/10 3/1/10
		Yellow Bullhead	K41324 K41325 K41327 K41332 K41333	KAL528 KAL528 KAL528 KAL529 KAL529	3/19/10 3/19/10 3/19/10 3/1/10 3/1/10
Otsego Dam	ABSA 7	Smallmouth Bass	K41342 K41343 K41344 K41345 K41346 K41347 K41348 K41349 K41350 K41351 K41352	KAL529 KAL529 KAL529 KAL529 KAL529 KAL529 KAL530 KAL530 KAL530 KAL530 KAL530	3/1/10 3/1/10 3/1/10 3/1/10 3/1/10 3/1/10 3/18/10 3/18/10 3/18/10 3/18/10 3/18/10

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Table H — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
Otsego Dam (Cont.)	ABSA 7 (Cont.)	Common Carp	K41335	KAL529	3/1/10
			K41336 ¹	KAL529	3/1/10
			K41337	KAL529	3/1/10
			K41338	KAL529	3/1/10
			K41339	KAL529	3/1/10
			K41340	KAL529	3/1/10
			K41341	KAL529	3/1/10
			K41353	KAL530	3/18/10
			K41354	KAL530	3/18/10
			K41355	KAL530	3/18/10
Trowbridge	ABSA 8	Smallmouth Bass	K41082	KAL512	3/1/10
			K41083	KAL512	3/1/10
			K41084	KAL512	3/1/10
			K41085	KAL512	3/1/10
			K41111	KAL515	3/3/10
			K41112	KAL515	3/3/10
			K41113	KAL515	3/3/10
			K41114 ¹	KAL515	3/3/10
			K41364	KAL530	3/18/10
		Common Carp	K41086	KAL512	3/1/10
		Bluegill	K41115	KAL515	3/3/10
			K41252	KAL525	3/10/10
			K41253 ¹	KAL525	3/10/10
			K41254	KAL525	3/10/10
			K41255	KAL525	3/10/10
			K41256	KAL525	3/10/10
			K41257	KAL525	3/10/10
			K41258	KAL525	3/10/10
			K41259	KAL525	3/10/10
			K41368	KAL531	3/22/10
		Rock Bass	K41369	KAL531	3/22/10
		Brown Bullhead	K41365	KAL530	3/18/10
			K41366	KAL530	3/18/10
			K41367	KAL530	3/18/10
			K41263	KAL525	3/10/10
			K41116	KAL515	3/3/10
			K41117	KAL515	3/3/10
			K41118	KAL515	3/3/10
			K41119	KAL515	3/3/10
			K41247	KAL525	3/10/10
			K41264	KAL525	3/10/10
		Yellow Bullhead	K41370	KAL531	3/22/10
			K41371	KAL531	3/22/10
			K41372	KAL531	3/22/10
			K41373	KAL531	3/22/10

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Table H — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
City of Allegan	--	Smallmouth Bass	K41183	KAL520	3/4/10
			K41184	KAL520	3/4/10
			K41185	KAL520	3/4/10
			K41186	KAL520	3/4/10
			K41187	KAL520	3/4/10
			K41188	KAL520	3/4/10
			K41189	KAL520	3/4/10
			K41190	KAL520	3/4/10
			K41191	KAL520	3/4/10
			K41192 ¹	KAL520	3/4/10
Lake Allegan	ABSA 9	Common Carp	K41172	KAL519	3/4/10
			K41173	KAL519	3/4/10
			K41174	KAL519	3/4/10
			K41175	KAL519	3/4/10
			K41176	KAL519	3/4/10
			K41177	KAL519	3/4/10
			K41178	KAL519	3/4/10
			K41179	KAL519	3/4/10
			K41180	KAL519	3/4/10
			K41181	KAL519	3/4/10
Lake Allegan	ABSA 9	Smallmouth Bass	K41194	KAL520	3/4/10
			K41195	KAL520	3/4/10
			K41196	KAL520	3/4/10
			K41197	KAL520	3/4/10
			K41198	KAL520	3/4/10
			K41199	KAL520	3/4/10
			K41200	KAL520	3/4/10
			K41201	KAL520	3/4/10
			K41202	KAL520	3/4/10
			K41203	KAL523	3/10/10
Lake Allegan	ABSA 9	Common Carp	K41204	KAL523	3/10/10
			K41205	KAL523	3/10/10
			K41206	KAL523	3/10/10
			K41207	KAL523	3/10/10
			K41208	KAL523	3/10/10
			K41209	KAL523	3/10/10
			K41210	KAL523	3/10/10
			K41211	KAL523	3/10/10
			K41212	KAL523	3/10/10
			K41213	KAL523	3/10/10
Lake Allegan	ABSA 9	Green Sunfish	K41214	KAL523	3/10/10
			K41215 ¹	KAL523	3/10/10
			K41234	KAL524	3/8/10
			K41235	KAL524	3/8/10
			K41236	KAL524	3/8/10
			K41237	KAL524	3/8/10

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Table H — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
Lake Allegan (Cont.)	ABSA 9 (Cont.)	Green Sunfish (Cont.)	K41238 ¹	KAL524	3/8/10
			K41239	KAL524	3/8/10
			K41240	KAL524	3/8/10
			K41241	KAL524	3/8/10
			K41242	KAL524	3/8/10
			K41243	KAL525	3/10/10
			K41244	KAL525	3/10/10
		Rock Bass	K41227	KAL524	3/8/10
			K41228	KAL524	3/8/10
			K41229	KAL524	3/8/10
			K41230	KAL524	3/8/10
			K41231	KAL524	3/8/10
			K41232	KAL524	3/8/10
			K41233	KAL524	3/8/10
			K41248	KAL525	3/10/10
			K41249	KAL525	3/10/10
			K41250	KAL525	3/10/10
			K41251	KAL525	3/10/10
		Channel Catfish	K41216	KAL523	3/10/10
			K41217	KAL523	3/10/10
			K41218	KAL523	3/10/10
			K41219	KAL523	3/10/10
			K41220	KAL523	3/10/10
			K41221	KAL523	3/10/10
			K41222	KAL523	3/10/10
			K41223	KAL524	3/8/10
			K41224	KAL524	3/8/10
			K41225	KAL524	3/8/10
			K41226	KAL524	3/8/10

Notes:

These samples were collected in October 2009, and filleted and forwarded to TestAmerica in January 2010.

¹MS/MSD performed on this sample.

ABSA - aquatic biota sampling area.

SDG - Sample delivery group.

Samples sent to TestAmerica Laboratories, Inc. for PCB and percent lipid analysis.

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Table I — Hot Spot Investigation — Status of Sediment Samples Processed in March 2010

Location	Sample ID	Interval (inches)	SDG	Date SDG Received from Lab
KRT5-G	K56958	0 - 2	NR	NR
	K56959	2 - 6	NR	NR
	K56960	6 - 12	NR	NR
	K56961	12 - 16	NR	NR
KRT5-H	K56953	0 - 2	NR	NR
	K56954	2 - 4	NR	NR
	K56955	4 - 6	NR	NR
	K56956	6 - 11	NR	NR
	K56957	11 - 14	NR	NR
KPT19-A	K56931	0 - 2	NR	NR
	K56932	2 - 6	NR	NR
	K56933	6 - 12	NR	NR
	K56934	12 - 18	NR	NR
	K56935	18 - 22	NR	NR
	K56936	22 - 24	NR	NR
	K56937	24 - 33	NR	NR
KPT19-I	K56938	0 - 2	NR	NR
	K56939	2 - 6	NR	NR
	K56940	6 - 12	NR	NR
	K56941	12 - 15	NR	NR
	K56942	15 - 24	NR	NR
	K56943	24 - 26	NR	NR
	K56944	26 - 29	NR	NR
	K56945	29 - 31	NR	NR
KPT19-J	K56946	0 - 2	NR	NR
	K56947	2 - 6	NR	NR
	K56948	6 - 12	NR	NR
	K56949 ¹	12 - 24	NR	NR
	K56950 [K56952]	24 - 32	NR	NR
	K56951	32 - 38	NR	NR
S-IM1-1	K56962	0 - 2	NR	NR
	K56963	2 - 6	NR	NR
	K56964	6 - 12	NR	NR
	K56965	12 - 14	NR	NR
	K56966	14 - 16	NR	NR
	K56967	16 - 19	NR	NR
	K56968	19 - 22	NR	NR
S-IM1-2	K56969	0 - 2	NR	NR
	K56970	2 - 6	KAL541	3/31/10
	K56971	6 - 12	KAL541	3/31/10
	K56972	12 - 17	KAL541	3/31/10

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Table I — Hot Spot Investigation — Status of Sediment Samples Processed in March 2010

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

NR - Not received as of March 31, 2010.

SDG - Sample delivery group.

Samples sent to TestAmerica Laboratories, Inc. for PCB, TOC, and grain size analysis.

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Table J — Crown Vantage Landfill Area — Status of Sediment Samples Processed in March 2010

Location	Sample ID	Interval (inches)	SDG	Date SDG Received from Lab
CVT-A-1	K57015	0 - 2	NR	NR
	K57016	2 - 6	NR	NR
	K57017	6 - 12	NR	NR
	K57018	12 - 20	NR	NR
CVT-A-2	K57019	0 - 2	NR	NR
	K57020	2 - 6	NR	NR
	K57021	6 - 12	NR	NR
	K57022	12 - 15	NR	NR
CVT-B-3	K57012	0 - 2	NR	NR
	K57013	2 - 6	NR	NR
	K57014	6 - 11	NR	NR
CVT-C-3	K57007	0 - 2	NR	NR
	K57008	2 - 4	NR	NR
	K57009	4 - 6	NR	NR
	K57010	6 - 12	NR	NR
	K57011	12 - 18	NR	NR
CVT-E-2	K57000	0 - 2	NR	NR
	K57001	2 - 6	NR	NR
	K57002	6 - 12	NR	NR
	K57003 [K57006]	12 - 24	NR	NR
	K57004 ¹	24 - 36	NR	NR
	K57005	36 - 39	NR	NR
CVT-E-3	K56994	0 - 2	NR	NR
	K56995	2 - 6	NR	NR
	K56996	6 - 12	NR	NR
	K56997 [K56999]	12 - 24	NR	NR
	K56998 ¹	24 - 32	NR	NR
CVT-F-3	K56991	0 - 2	NR	NR
	K56992	2 - 6	NR	NR
	K56993	6 - 13	NR	NR
CVT-H-3	K56986	0 - 2	KAL541	3/31/10
	K56987	2 - 6	KAL541	3/31/10
	K56988 ¹	6 - 12	KAL541	3/31/10
	K56989 [K56990]	12 - 22	KAL541 [KAL541]	3/31/10
CVT-I-1	K56973	0 - 2	KAL541	3/31/10
	K56974	2 - 6	KAL541	3/31/10
	K56975	6 - 12	KAL541	3/31/10
	K56976	12 - 18	KAL541	3/31/10
	K56977	18 - 24	KAL541	3/31/10
	K56978	24 - 31	KAL541	3/31/10

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Table J — Crown Vantage Landfill Area — Status of Sediment Samples Processed in March 2010

Location	Sample ID	Interval (inches)	SDG	Date SDG Received from Lab
CVT-I-2	K56979	0 - 2	KAL541	3/31/10
	K56980	2 - 6	KAL541	3/31/10
	K56981	6 - 12	KAL541	3/31/10
	K56982	12 - 15	KAL541	3/31/10
	K56983 [K56985]	15 - 24	KAL541 [KAL541]	3/31/10
	K56984 ¹	24 - 29	NR	NR

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

NR - Not received as of March 31, 2010.

SDG - Sample delivery group.

Samples sent to TestAmerica Laboratories, Inc. for PCB, TOC, and grain size analysis.

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Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name:		K56471 0 - 2	K56472 2 - 6	K56473 6 - 12	K56474 12 - 24	K56475 24 - 36	K56476 36 - 48	K56477 [K56479] 48 - 60	K56478 60 - 70	K56480 0 - 2	K56481 2 - 6	K56482 6 - 12
Sample Depth(in):	Units	11/03/09 KRT5-A	11/03/09 KRT5-A	11/03/09 KRT5-C	11/03/09 KRT5-C	11/03/09 KRT5-C						
PCB Aroclors												
Aroclor-1016	mg/kg	0.066 U	0.057 U	0.20 U	3.8 U	15 U	28 U	23 U [23 U]	26 U	0.053 U	0.054 U	0.059 U
Aroclor-1221	mg/kg	0.066 U	0.057 U	0.20 U	3.8 U	15 U	28 U	23 U [23 U]	26 U	0.053 U	0.054 U	0.059 U
Aroclor-1232	mg/kg	0.066 U	0.057 U	0.20 U	3.8 U	15 U	28 U	23 U [23 U]	26 U	0.053 U	0.054 U	0.059 U
Aroclor-1242	mg/kg	0.26	0.10	0.80	39	100	230	220 [220]	210	0.12	0.043 J	0.067
Aroclor-1248	mg/kg	0.066 U	0.057 U	0.20 U	3.8 U	15 U	28 U	23 U [23 U]	26 U	0.053 U	0.054 U	0.084
Aroclor-1254	mg/kg	0.15	0.054 J	0.26	9.0	10 J	20 J	20 J [18 J]	32	0.060	0.035 J	0.059 U
Aroclor-1260	mg/kg	0.066 U	0.057 U	0.20 U	2.1 J	15 U	28 U	23 U [23 U]	26 U	0.053 U	0.054 U	0.059 U
Total PCBs	mg/kg	0.41	0.15 J	1.1	50	110	250	240 [240]	240	0.18	0.078 J	0.15
Miscellaneous												
Percent Solids	%	73.4	83.3	70	39	31.5	32.6	40.8 [39.6]	37.1	86.5	89.8	82.2
TOC												
Total Organic Carbon	mg/kg	10,200	9,550 J	14,700 J	114,000	110,000	90,200 J	92,900 [89,200]	88,000	12,500 J	8,550	3,480
Grain Size Analysis												
Gravel	%	0.9	2.6	0.5	0	0	0	0.6 [0]	0	73.8	58.6	16.8
Coarse Sand	%	2.1	10	1.6	0.9	0.1	0	0.3 [0.5]	0	4.6	7.7	17
Medium Sand	%	19.6	40.8	13.6	5.6	2.8	1.2	3.5 [5]	2.5	6	10.9	27.7
Fine Sand	%	73.6	43.9	78	51.7	8.2	3.7	7.1 [9.1]	6.6	13	17	30.2
Silt	%	2.3	1.9	4.5	23.4	59.9	51.7	53.5 [57.2]	58.4	2.4	5.8	7.6
Clay	%	1.5	0.7	1.7	18.4	28.8	43.4	35 [28.2]	32.4	0.1	0.1	0.6
Grain Size Analysis - % passing (particle size, um)												
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	70.2 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	56 (19000)	77.1 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500) [100 (9500)]	100 (9500)	32.8 (9500)	50.9 (9500)	91.6 (9500)
Sieve, #4	% passing	99.1 (4750)	97.4 (4750)	99.5 (4750)	100 (4750)	100 (4750)	100 (4750)	99.4 (4750) [100 (4750)]	100 (4750)	26.2 (4750)	41.4 (4750)	83.2 (4750)
Sieve, #10	% passing	97 (2000)	87.4 (2000)	97.8 (2000)	99.1 (2000)	99.9 (2000)	100 (2000)	99.1 (2000) [99.5 (2000)]	100 (2000)	21.5 (2000)	33.7 (2000)	66.1 (2000)
Sieve, #20	% passing	90.7 (850)	70.6 (850)	93.1 (850)	98.4 (850)	99.4 (850)	99.9 (850)	98.4 (850) [98.1 (850)]	99.6 (850)	18.5 (850)	28.7 (850)	54.4 (850)
Sieve, #40	% passing	77.4 (425)	46.6 (425)	84.2 (425)	93.5 (425)	97 (425)	98.8 (425)	95.5 (425) [94.5 (425)]	97.5 (425)	15.6 (425)	22.9 (425)	38.5 (425)
Sieve, #60	% passing	59 (250)	21.8 (250)	67.6 (250)	85.5 (250)	94.5 (250)	97.8 (250)	92.7 (250) [90.7 (250)]	95.6 (250)	11.8 (250)	16.7 (250)	22.2 (250)
Sieve, #80	% passing	40.6 (180)	12.4 (180)	46.3 (180)	73.3 (180)	93 (180)	97.1 (180)	91.3 (180) [88.8 (180)]	94.4 (180)	6.9 (180)	11.4 (180)	13.5 (180)
Sieve, #100	% passing	27.3 (150)	8.7 (150)	31.2 (150)	65.1 (150)	92.3 (150)	96.8 (150)	90.6 (150) [88 (150)]	93.8 (150)	4.9 (150)	8.8 (150)	11.5 (150)
Sieve, #200	% passing	3.7 (75)	2.7 (75)	6.2 (75)	41.8 (75)	88.8 (75)	95.1 (75)	88.4 (75) [85.4 (75)]	90.9 (75)	2.5 (75)	5.8 (75)	8.2 (75)
Hydrometer Reading 1	% passing	2.6 (37)	2.4 (37)	5.5 (36)	38 (34)	78.6 (31)	73.4 (32)	71.2 (31) [61.3 (32)]	64.1 (33)	0.7 (37)	1.2 (37)	2 (37)
Hydrometer Reading 2	% passing	2.6 (23)	1.8 (23)	4.7 (23)	32.7 (22)	59.1 (21)	68.4 (21)	61.2 (20) [48.4 (21)]	54.3 (21)	0.7 (24)	1.2 (23)	2 (23)
Hydrometer Reading 3	% passing	1.5 (13.6)	1.3 (13.5)	3.2 (13.4)	27.3 (12.7)	50.5 (12.2)	58.4 (12.2)	53.1 (12) [42.9 (12.2)]	47 (12.5)	0.7 (13.6)	1.2 (13.5)	1.6 (13.5)
Hydrometer Reading 4	% passing	1.5 (9.6)	1.3 (9.7)	2.5 (9.7)	23.8 (8.9)	39.7 (8.7)	53.4 (8.6)	41 (8.5) [35.6 (8.8)]	39.7 (9)	0.2 (9.7)	0.4 (9.5)	1.6 (9.5)
Hydrometer Reading 5	% passing	1.5 (6.9)	0.7 (6.9)	1.7 (6.6)	18.4 (6.5)	28.8 (6.5)	43.4 (6.4)	35 (6.3) [28.2 (6.5)]	32.4 (6.3)	0.1 (6.7)	0.1 (7)	0.6 (6.9)
Hydrometer Reading 6	% passing	1.3 (3.3)	0.6 (3.4)	0.9 (3.4)	12.8 (3.3)	22 (3.3)	33.4 (3.1)	24.5 (3.1) [20.5 (3.2)]	22.3 (3.2)	0.1 (3.4)	0.1 (3.5)	0.6 (3.3)
Hydrometer Reading 7	% passing	1.3 (1.4)	0.6 (1.4)	0.7 (1.4)	9.2 (1.4)	17.3 (1.4)	22.9 (1.4)	18.5 (1.4) [15 (1.4)]	12.6 (1.4)	0 (1.4)	0 (1.4)	0.6 (1.4)

See Notes on Page 14.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #37, March 2010

Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56483 12 - 14 11/03/09 KRT5-C	K56484 0 - 2 11/03/09 KRT5-D	K56485 2 - 6 11/03/09 KRT5-D	K56486 6 - 9 11/03/09 KRT5-D	K56487 0 - 2 11/03/09 KRT5-E	K56488 2 - 6 11/03/09 KRT5-E	K56489 6 - 12 11/03/09 KRT5-E	K56490 12 - 18 11/03/09 KRT5-E	K56491 0 - 2 11/03/09 KRT5-F	K56492 2 - 6 11/03/09 KRT5-F	K56493 6 - 12 11/03/09 KRT5-F	K56494 12 - 20 11/03/09 KRT5-F	
PCB Aroclors														
Aroclor-1016	mg/kg	0.055 U	0.062 U	0.27 U	1.1 U	0.14 U	0.066 U	1.8 U	1.7 U	0.078 U	0.13 U	0.21 U	0.49 U	
Aroclor-1221	mg/kg	0.055 U	0.062 U	0.27 U	1.1 U	0.14 U	0.066 U	1.8 U	1.7 U	0.078 U	0.13 U	0.21 U	0.49 U	
Aroclor-1232	mg/kg	0.055 U	0.062 U	0.27 U	1.1 U	0.14 U	0.066 U	1.8 U	1.7 U	0.078 U	0.13 U	0.21 U	0.49 U	
Aroclor-1242	mg/kg	0.031 J	0.12	1.2	4.8	0.41	0.27	14	16	0.65	1.0	1.6	1.9	
Aroclor-1248	mg/kg	0.044 J	0.048 J	0.27 U	1.1 U	0.14 U	0.048 J	1.8 U	1.7 U	0.078 U	0.13 U	0.21 U	0.40 J	
Aroclor-1254	mg/kg	0.055 U	0.090	0.26 J	0.94 J	0.81	0.14	1.8 J	2.0	0.27	0.27	0.32	0.61	
Aroclor-1260	mg/kg	0.055 U	0.062 U	0.27 U	1.1 U	0.084 J	0.066 U	1.8 U	1.7 U	0.078 UJ	0.13 UJ	0.21 UJ	0.49 UJ	
Total PCBs	mg/kg	0.075 J	0.26	1.5	5.7	1.3	0.46	16	18	0.92	1.3	1.9	2.9 J	
Miscellaneous														
Percent Solids	%	88.8	75.2	88.6	82.4	66.5	71.4	53.9	52.8	65.3	72	68.2	54.1	
TOC														
Total Organic Carbon	mg/kg	3,930 J	3,480 J	8,860 J	5,580 J	11,600 J	6,700 J	44,400	52,700	54,200 J	34,400 J	50,400 J	127,000	
Grain Size Analysis														
Gravel	%	72.5	25.6	38.3	13.7	0	4.2	25.9	5.2	0	0.1	0	0	
Coarse Sand	%	4.2	4.2	11.5	18.5	0.5	0.7	5.3	1.4	0	0	0	1.3	
Medium Sand	%	6.9	36	31.9	43.8	2.7	2.7	8	4.9	2.5	6.4	7.4	7	
Fine Sand	%	9.1	29.2	15.7	18.9	87.2	87.6	27.5	45.4	88.4	89.1	86.5	61.4	
Silt	%	7.7	5.6	2.9	3.1	5.2	3.7	27.1	34.8	8.6	3.7	4.6	21.5	
Clay	%	-0.4	-0.6	-0.3	1.9	4.3	0.9	6.2	8.4	0.4	0.7	1.5	8.8	
Grain Size Analysis - % passing (particle size, um)														
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	64.3 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	57.5 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	46.1 (19000)	84.5 (19000)	90.4 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	
Sieve, 3/8 inch	% passing	33.7 (9500)	76 (9500)	69.7 (9500)	96.3 (9500)	100 (9500)	100 (9500)	79.8 (9500)	96.2 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	
Sieve, #4	% passing	27.5 (4750)	74.4 (4750)	61.7 (4750)	86.3 (4750)	100 (4750)	95.8 (4750)	74.1 (4750)	94.8 (4750)	100 (4750)	99.9 (4750)	100 (4750)	100 (4750)	
Sieve, #10	% passing	23.3 (2000)	70.2 (2000)	50.2 (2000)	67.8 (2000)	99.5 (2000)	95 (2000)	68.9 (2000)	93.4 (2000)	100 (2000)	99.8 (2000)	100 (2000)	98.7 (2000)	
Sieve, #20	% passing	20.1 (850)	64.1 (850)	37.8 (850)	48 (850)	98.8 (850)	94.1 (850)	64.8 (850)	91.6 (850)	99.8 (850)	99.1 (850)	98.9 (850)	97.7 (850)	
Sieve, #40	% passing	16.4 (425)	34.2 (425)	18.3 (425)	24 (425)	96.8 (425)	92.3 (425)	60.8 (425)	88.5 (425)	97.5 (425)	93.5 (425)	92.6 (425)	91.7 (425)	
Sieve, #60	% passing	11.4 (250)	8.3 (250)	5.7 (250)	9.8 (250)	89.1 (250)	80.6 (250)	57.8 (250)	85.5 (250)	87.1 (250)	75.5 (250)	78.5 (250)	84 (250)	
Sieve, #80	% passing	8.4 (180)	5.7 (180)	3.5 (180)	6.5 (180)	39.4 (180)	31.2 (180)	52 (180)	77.3 (180)	52.9 (180)	24.7 (180)	29.1 (180)	65.3 (180)	
Sieve, #100	% passing	8.1 (150)	5.4 (150)	3.3 (150)	6.1 (150)	25.4 (150)	19.1 (150)	49.1 (150)	72.7 (150)	38.5 (150)	16.1 (150)	18.1 (150)	55.2 (150)	
Sieve, #200	% passing	7.3 (75)	5 (75)	2.6 (75)	5 (75)	9.5 (75)	4.7 (75)	33.3 (75)	43.2 (75)	9.1 (75)	4.4 (75)	6.1 (75)	30.3 (75)	
Hydrometer Reading 1	% passing	-0.4 (38)	0.3 (37)	1.5 (37)	4.1 (36)	7.6 (37)	3 (37)	19 (34)	22.8 (34)	3.1 (37)	2.6 (37)	3.3 (36)	15.5 (36)	
Hydrometer Reading 2	% passing	-0.4 (24)	0.3 (24)	1.1 (23)	3.6 (23)	7.6 (23)	2.3 (23)	17 (22)	18.1 (22)	1.8 (24)	2.1 (23)	2.8 (23)	15.5 (23)	
Hydrometer Reading 3	% passing	-0.4 (13.7)	0.3 (13.7)	0.6 (13.6)	3 (13.4)	7.6 (13.5)	1.6 (13.5)	11.2 (12.9)	13.2 (13)	1.8 (13.6)	1.6 (13.5)	2.4 (13.4)	12.1 (13.2)	
Hydrometer Reading 4	% passing	-0.4 (9.7)	0.3 (9.8)	0.6 (9.8)	1.9 (9.4)	4.3 (9.5)	0.9 (9.5)	7.1 (9.1)	10.9 (9.3)	0.4 (9.7)	0.7 (9.6)	1.5 (9.5)	12.1 (9.2)	
Hydrometer Reading 5	% passing	-0.4 (7)	-0.6 (7)	-0.3 (6.7)	1.9 (6.7)	4.3 (6.9)	0.9 (6.9)	6.2 (6.6)	8.4 (6.5)	0.4 (6.7)	0.7 (7)	1.5 (6.6)	8.8 (6.9)	
Hydrometer Reading 6	% passing	-0.4 (3.3)	-0.6 (3.4)	-0.3 (3.4)	1.9 (3.4)	4.3 (3.4)	0.9 (3.2)	5.2 (3.2)	6.2 (3.3)	0.4 (3.3)	0.7 (3.3)	1 (3.4)	7.2 (3.4)	
Hydrometer Reading 7	% passing	-0.4 (1.4)	-0.6 (1.4)	-0.3 (1.4)	1.2 (1.4)	4.3 (1.4)	0.1 (1.4)	3.1 (1.4)	3.7 (1.4)	0.4 (1.4)	0.2 (1.4)	0.6 (1.4)	3.9 (1.4)	

See Notes on Page 14.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #37, March 2010

Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56495 20 - 24 11/03/09 KRT5-F	K56496 24 - 29 11/03/09 KRT5-F	K56497 29 - 32 11/03/09 KRT5-F	K56498 32 - 35 11/03/09 KRT5-F	K56499 35 - 42 11/03/09 KRT5-F	K56500 42 - 44 11/03/09 KRT5-F	K56501 0 - 2 11/03/09 KRT4-3	K56502 2 - 6 11/03/09 KRT4-3	K56503 6 - 9 11/03/09 KRT4-3	K56504 9 - 11 11/03/09 KRT4-3	K56505 11 - 24 11/03/09 KRT4-3	K56506 24 - 35 11/03/09 KRT4-3	
PCB Aroclors														
Aroclor-1016	mg/kg	0.55 U	0.80 U	25 U	7.4 U	20 U	8.1 U	0.058 U	0.058 U	0.056 U	0.77 U	0.10 U	0.11 U	
Aroclor-1221	mg/kg	0.55 U	0.80 U	25 U	7.4 U	20 U	8.1 U	0.058 U	0.058 U	0.056 U	0.77 U	0.10 U	0.19	
Aroclor-1232	mg/kg	0.55 U	0.80 U	25 U	7.4 U	20 U	8.1 U	0.058 U	0.058 U	0.056 U	0.77 U	0.10 U	0.11 U	
Aroclor-1242	mg/kg	3.0	3.2	170	38	160 J	60	0.26	0.10	0.098	3.3	0.22	0.11 U	
Aroclor-1248	mg/kg	0.55 U	0.80 U	25 U	19	20 U	8.1 U	0.058 U	0.058 U	0.056 U	0.77 U	0.092 J	0.11 U	
Aroclor-1254	mg/kg	1.0	0.83	25 U	23	19 J	11	0.091	0.058 U	0.035 J	2.6	0.11	0.11 U	
Aroclor-1260	mg/kg	0.55 UJ	0.80 UJ	25 UJ	7.4 UJ	10 J	8.1 UJ	0.063 J	0.047 J	0.056 UJ	0.77 UJ	0.10 UJ	0.11 UJ	
Total PCBs	mg/kg	4.0	4.0	170	80	190 J	71	0.41	0.15 J	0.13 J	5.9	0.42 J	0.19	
Miscellaneous														
Percent Solids	%	47.5	63	38	62.8	46.8	62	84.4	86	89	63.8	95.2	93.6	
TOC														
Total Organic Carbon	mg/kg	99,100	53,100 J	145,000	19,200 J	76,200 J	204,000	31,100	11,500 J	31,000	49,100 J	8,450 J	13,400	
Grain Size Analysis														
Gravel	%	0	0.2	0	1.2	0.6	0	0	0.7	0	0	22.6	5.6	
Coarse Sand	%	0	0.4	0	0.5	1.9	0	0	1	1.3	1.5	20.5	8.5	
Medium Sand	%	3.5	3.5	1.2	8.8	8.6	35.8	14.4	33.5	47.7	16.9	36.9	16.1	
Fine Sand	%	82.8	81.4	25.4	74	25.3	50.5	79.2	62.6	49.1	32.7	17	67.1	
Silt	%	10.2	11.7	49.4	11.1	38.7	9.3	1.2	0.4	1.2	42.9	2.3	2.2	
Clay	%	3.5	2.8	23.9	4.3	24.9	4.4	5.2	1.7	0.7	6	0.6	0.6	
Grain Size Analysis - % passing (particle size, um)														
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	
Sieve, 3/8 inch	% passing	100 (9500)	100 (9500)	100 (9500)	99.4 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	90.4 (9500)	99 (9500)	
Sieve, #4	% passing	100 (4750)	99.8 (4750)	100 (4750)	98.8 (4750)	99.4 (4750)	100 (4750)	100 (4750)	99.3 (4750)	100 (4750)	100 (4750)	77.4 (4750)	94.4 (4750)	
Sieve, #10	% passing	100 (2000)	99.4 (2000)	100 (2000)	98.3 (2000)	97.5 (2000)	100 (2000)	100 (2000)	98.3 (2000)	98.7 (2000)	98.5 (2000)	56.8 (2000)	85.9 (2000)	
Sieve, #20	% passing	99.3 (850)	98.9 (850)	99.7 (850)	96.8 (850)	94.1 (850)	87 (850)	98.1 (850)	93.6 (850)	90.5 (850)	93 (850)	36.9 (850)	79.7 (850)	
Sieve, #40	% passing	96.5 (425)	95.9 (425)	98.8 (425)	89.5 (425)	89 (425)	64.2 (425)	85.6 (425)	64.7 (425)	51 (425)	81.6 (425)	19.9 (425)	69.8 (425)	
Sieve, #60	% passing	89.1 (250)	82.6 (250)	93.5 (250)	64.8 (250)	84.6 (250)	52 (250)	43.8 (250)	23.5 (250)	12.2 (250)	69.9 (250)	7.7 (250)	34.5 (250)	
Sieve, #80	% passing	61.1 (180)	45.8 (180)	83.3 (180)	29.6 (180)	76.4 (180)	32.9 (180)	18.1 (180)	7.6 (180)	4.1 (180)	59.5 (180)	4 (180)	10.6 (180)	
Sieve, #100	% passing	47.2 (150)	35.1 (150)	80.9 (150)	22.8 (150)	73.4 (150)	25.8 (150)	14 (150)	5.2 (150)	3.1 (150)	57.6 (150)	3.6 (150)	7.5 (150)	
Sieve, #200	% passing	13.7 (75)	14.5 (75)	73.3 (75)	15.5 (75)	63.6 (75)	13.7 (75)	6.4 (75)	2.1 (75)	1.9 (75)	49 (75)	2.9 (75)	2.7 (75)	
Hydrometer Reading 1	% passing	9.4 (36)	6 (36)	49.1 (34)	9.2 (35)	46.9 (33)	9.7 (36)	5.2 (37)	1.7 (37)	1.9 (37)	17.8 (36)	1.6 (37)	1.5 (37)	
Hydrometer Reading 2	% passing	7.5 (23)	5.4 (23)	41.5 (22)	7.8 (22)	40.9 (21)	7.9 (23)	5.2 (24)	1.7 (24)	1.4 (23)	14.4 (23)	1.6 (23)	1.5 (23)	
Hydrometer Reading 3	% passing	5.5 (13.3)	3.5 (13.3)	34 (12.8)	6.5 (13)	34.9 (12.5)	6.2 (13.4)	5.2 (13.6)	1.7 (13.6)	0.8 (13.5)	10.9 (13.3)	1.6 (13.4)	1.5 (13.4)	
Hydrometer Reading 4	% passing	4.5 (9.4)	3.5 (9.4)	28.9 (9.3)	5.1 (9.5)	30.9 (8.8)	6.2 (9.3)	5.2 (9.5)	1.7 (9.3)	0.8 (9.6)	7.5 (9.5)	1.1 (9.5)	0.6 (9.5)	
Hydrometer Reading 5	% passing	3.5 (6.8)	2.8 (6.8)	23.9 (6.6)	4.3 (6.5)	24.9 (6.4)	4.4 (6.8)	5.2 (6.9)	1.7 (6.8)	0.7 (6.6)	6 (6.9)	0.6 (6.6)	0.6 (7)	
Hydrometer Reading 6	% passing	3.5 (3.2)	2.2 (3.2)	18.9 (3.2)	3.1 (3.3)	17 (3.3)	4.4 (3.4)	5.2 (3.2)	1.7 (3.3)	0.7 (3.3)	4 (3.3)	0.6 (3.4)	0.6 (3.4)	
Hydrometer Reading 7	% passing	3.3 (1.4)	1.5 (1.4)	10.9 (1.4)	2.3 (1.4)	13 (1.4)	4.1 (1.4)	5.2 (1.4)	1.7 (1.4)	0.7 (1.4)	2.3 (1.4)	0.6 (1.4)	0.6 (1.4)	

See Notes on Page 14.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56507 35 - 38 11/03/09 KRT4-3	K56508 38 - 40 11/03/09 KRT4-3	K56509 40 - 48 11/03/09 KRT4-3	K56510 48 - 58 11/03/09 KRT4-3	K56511 0 - 2 11/04/09 KPT23-C	K56512 2 - 6 11/04/09 KPT23-C	K56513 6 - 12 11/04/09 KPT23-C	K56514 [K56517] 12 - 24 11/04/09 KPT23-C	K56515 24 - 36 11/04/09 KPT23-C	K56516 36 - 38 11/04/09 KPT23-C	K56518 0 - 2 11/04/09 KPT23-D	
PCB Aroclors													
Aroclor-1016	mg/kg	0.14 U	0.086 U	0.057 U	0.060 U	0.13 U	0.060 U	0.060 U	0.062 U [0.063 U]	0.12 U	0.064 U	0.075 U	
Aroclor-1221	mg/kg	0.77	0.086 U	0.057 U	0.060 U	0.13 U	0.060 U	0.060 U	0.062 U [0.063 U]	0.12 U	0.064 U	0.075 U	
Aroclor-1232	mg/kg	0.14 U	0.086 U	0.057 U	0.060 U	0.13 U	0.060 U	0.060 U	0.062 U [0.063 U]	0.12 U	0.064 U	0.075 U	
Aroclor-1242	mg/kg	0.14 U	0.086 U	0.057 U	0.060 U	0.98	0.14	0.22	0.11 [0.12]	0.28	0.32	0.089	
Aroclor-1248	mg/kg	0.14 U	0.20	0.057 U	0.060 U	0.18	0.066	0.068	0.040 J [0.058 J]	0.090 J	0.14	0.075 U	
Aroclor-1254	mg/kg	0.14 U	0.086 U	0.057 U	0.060 U	0.47	0.070	0.087	0.060 J [0.081]	0.12 J	0.15	0.087	
Aroclor-1260	mg/kg	0.14 UJ	0.17	0.057 U	0.060 U	0.13 U	0.060 U	0.060 U	0.062 U [0.063 U]	0.12 U	0.064 U	0.075 U	
Total PCBs	mg/kg	0.77	0.37	0.057 U	0.060 U	1.6	0.28	0.38	0.21 J [0.26]	0.49 J	0.61	0.18	
Miscellaneous													
Percent Solids	%	73	56.7	87.3	82.9	70.7	79.5	80	79 [76.8]	81.8	79.2	64.5	
TOC													
Total Organic Carbon	mg/kg	23,900	134,000	7,830 J	1,020	20,500 J	2,170 J	1,200 J	6,460 J [8,880 J]	1,800 J	4,140 J	10,700	
Grain Size Analysis													
Gravel	%	0.4	1.1	2.2	0	2.6	1.5	2.3	0.5 [0.3]	0.6	0	5	
Coarse Sand	%	1.4	2.9	1.3	0	6.4	2.3	2.3	0.6 [0.7]	1.3	1	5.4	
Medium Sand	%	9	12.1	12.1	0.1	39.3	50.6	56.5	41.5 [40.2]	49.3	57.4	28.8	
Fine Sand	%	74.4	47.4	83	95.2	48	43.6	36.2	53.3 [55.1]	46.7	39.4	56.1	
Silt	%	11.9	26.9	0.5	3.9	3.2	1.8	2.5	3.9 [2.4]	1.3	1.1	3.1	
Clay	%	2.8	9.5	0.8	0.9	0.5	0.2	0.3	0.3 [1.3]	0.7	1.1	1.6	
Grain Size Analysis - % passing (particle size, um)													
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)	
Sieve, 3/8 inch	% passing	100 (9500)	100 (9500)	99.2 (9500)	100 (9500)	100 (9500)	99.6 (9500)	99 (9500)	100 (9500) [100 (9500)]	100 (9500)	100 (9500)	100 (9500)	
Sieve, #4	% passing	99.6 (4750)	98.9 (4750)	97.8 (4750)	100 (4750)	97.4 (4750)	98.5 (4750)	97.7 (4750)	99.5 (4750) [99.7 (4750)]	99.4 (4750)	100 (4750)	95 (4750)	
Sieve, #10	% passing	98.1 (2000)	96 (2000)	96.5 (2000)	100 (2000)	91 (2000)	96.2 (2000)	95.4 (2000)	99 (2000) [99 (2000)]	98.1 (2000)	99 (2000)	89.6 (2000)	
Sieve, #20	% passing	93.7 (850)	92.1 (850)	94.8 (850)	100 (850)	77.1 (850)	80.8 (850)	79.6 (850)	91.9 (850) [92.6 (850)]	86.8 (850)	83 (850)	80 (850)	
Sieve, #40	% passing	89.1 (425)	83.9 (425)	84.3 (425)	99.9 (425)	51.7 (425)	45.6 (425)	38.9 (425)	57.5 (425) [58.7 (425)]	48.8 (425)	41.6 (425)	60.8 (425)	
Sieve, #60	% passing	78 (250)	68.3 (250)	19.7 (250)	99.2 (250)	18.5 (250)	10.1 (250)	9.5 (250)	17.9 (250) [18.2 (250)]	10.8 (250)	5.2 (250)	40 (250)	
Sieve, #80	% passing	62.1 (180)	56.6 (180)	7.7 (180)	78.4 (180)	11 (180)	3.8 (180)	3.9 (180)	9.4 (180) [9.4 (180)]	4.5 (180)	2.8 (180)	23.8 (180)	
Sieve, #100	% passing	49.3 (150)	50.7 (150)	4.6 (150)	49 (150)	9.1 (150)	3 (150)	3.2 (150)	7 (150) [6.7 (150)]	3.4 (150)	2.5 (150)	15.8 (150)	
Sieve, #200	% passing	14.8 (75)	36.5 (75)	1.3 (75)	4.8 (75)	3.7 (75)	2 (75)	2.8 (75)	4.2 (75) [3.7 (75)]	2 (75)	2.2 (75)	4.7 (75)	
Hydrometer Reading 1	% passing	7.7 (35)	26.2 (35)	1.2 (37)	1.6 (37)	2.9 (37)	0.9 (37)	0.9 (37)	1.4 (37) [2.5 (37)]	1.4 (37)	2 (37)	4.1 (37)	
Hydrometer Reading 2	% passing	6.1 (23)	20.6 (23)	1.2 (23)	1.6 (23)	2.9 (23)	0.9 (23)	0.9 (23)	1.4 (23) [2 (23)]	1.1 (23)	2 (23)	4.1 (23)	
Hydrometer Reading 3	% passing	4.4 (13.2)	15.1 (13.2)	0.8 (13.6)	1.6 (13.4)	1.8 (13.4)	0.8 (13.5)	0.8 (13.5)	1.4 (13.4) [2 (13.4)]	1.1 (13.5)	1.3 (13.4)	4.1 (13.4)	
Hydrometer Reading 4	% passing	3.4 (9.4)	11.4 (9.4)	0.8 (9.8)	0.9 (9.4)	1.6 (9.2)	0.8 (9.6)	0.8 (9.6)	0.8 (9.6) [1.3 (9.6)]	0.7 (9.8)	1.3 (9.3)	2.7 (9.6)	
Hydrometer Reading 5	% passing	2.8 (6.7)	9.5 (6.8)	0.8 (6.9)	0.9 (6.8)	0.5 (6.8)	0.2 (6.7)	0.3 (7)	0.3 (6.6) [1.3 (6.8)]	0.7 (6.6)	1.1 (6.9)	1.6 (6.9)	
Hydrometer Reading 6	% passing	1.8 (3.2)	4.3 (3.3)	0.1 (3.3)	0.9 (3.2)	0.5 (3.3)	0.2 (3.3)	0.3 (3.3)	0.3 (3.4) [0.8 (3.3)]	0.5 (3.3)	1.1 (3.4)	1.6 (3.3)	
Hydrometer Reading 7	% passing	1.2 (1.4)	0.3 (1.4)	0.1 (1.4)	0.9 (1.4)	0.5 (1.4)	0.2 (1.4)	0.3 (1.4)	0.3 (1.4) [0.8 (1.4)]	0.4 (1.4)	1.1 (1.4)	1.6 (1.4)	

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Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56519 2 - 6 11/04/09 KPT23-D	K56520 6 - 12 11/04/09 KPT23-D	K56521 12 - 22 11/04/09 KPT23-D	K56522 0 - 2 11/04/09 KPT23-E	K56523 2 - 6 11/04/09 KPT23-E	K56524 6 - 12 11/04/09 KPT23-E	K56525 [K56528] 12 - 24 11/04/09 KPT23-E	K56526 24 - 36 11/04/09 KPT23-E	K56527 36 - 39 11/04/09 KPT23-E	K56529 0 - 2 11/04/09 KPT23-F	K56530 2 - 6 11/04/09 KPT23-F	
PCB Aroclors													
Aroclor-1016	mg/kg	0.071 U	0.059 U	0.078 U	0.061 U	0.12 U	0.063 U	0.059 U [0.058 U]	0.13 U	0.12 U	0.068 U	0.079 U	
Aroclor-1221	mg/kg	0.071 U	0.059 U	0.078 U	0.061 U	0.12 U	0.063 U	0.059 U [0.058 U]	0.13 U	0.12 U	0.068 U	0.079 U	
Aroclor-1232	mg/kg	0.071 U	0.059 U	0.078 U	0.061 U	0.12 U	0.063 U	0.059 U [0.058 U]	0.13 U	0.12 U	0.068 U	0.079 U	
Aroclor-1242	mg/kg	0.071 U	0.059 U	0.078 U	0.32	0.67	0.12	0.17 [0.26]	0.66	0.55	0.093	0.079 U	
Aroclor-1248	mg/kg	0.071 U	0.059 U	0.078 U	0.053 J	0.11 J	0.052 J	0.088 [0.066]	0.13 U	0.12 U	0.068 U	0.079 U	
Aroclor-1254	mg/kg	0.071 U	0.059 U	0.078 U	0.095	0.12 U	0.060 J	0.12 [0.11]	0.23	0.15	0.062 J	0.079 U	
Aroclor-1260	mg/kg	0.071 U	0.059 U	0.078 U	0.061 U	0.16	0.063 U	0.059 U [0.058 U]	0.13 U	0.12 U	0.068 U	0.079 U	
Total PCBs	mg/kg	0.071 U	0.059 U	0.078 U	0.47	0.94	0.23	0.38 [0.44]	0.89	0.70	0.16 J	0.079 U	
Miscellaneous													
Percent Solids	%	72.6	83.6	62.9	76.2	77.1	79.3	81.7 [82.3]	79.9	81.1	69.6	65.3	
TOC													
Total Organic Carbon	mg/kg	7,350 J	4,220	16,100	3,850	10,300 J	6,200 J	2,670 J [2,370 J]	2,900 J	2,600 J	8,940	20,700 J	
Grain Size Analysis													
Gravel	%	23.2	12.3	8.5	3.6	3.9	3.9	1.9 [3.3]	1.9	0.4	20.2	8.8	
Coarse Sand	%	5.7	11.5	5.6	8.7	6.8	7.4	7.2 [7.5]	7.3	1.6	6.2	3.3	
Medium Sand	%	21	9.7	14.2	43.3	40.8	59.2	60.4 [59.2]	61	46.9	13.6	6.4	
Fine Sand	%	43.1	54.5	60.3	41.3	46.3	24.1	27.3 [26.2]	26.8	49.2	42.7	66.2	
Silt	%	5.3	10.3	7.8	2.3	1.4	5.7	2.9 [3.2]	2.1	2.3	12.9	12.1	
Clay	%	1.6	1.7	3.5	0.8	0.8	-0.4	0.2 [0.8]	0.8	-0.5	4.3	3.2	
Grain Size Analysis - % passing (particle size, um)													
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)	100 (19000)	
Sieve, 3/8 inch	% passing	86.9 (9500)	97.3 (9500)	94.2 (9500)	98.7 (9500)	98.7 (9500)	99 (9500)	99.4 (9500) [98.6 (9500)]	100 (9500)	100 (9500)	93.2 (9500)	96.1 (9500)	
Sieve, #4	% passing	76.8 (4750)	87.7 (4750)	91.5 (4750)	96.4 (4750)	96.1 (4750)	96.1 (4750)	98.1 (4750) [96.7 (4750)]	98.1 (4750)	99.6 (4750)	79.8 (4750)	91.2 (4750)	
Sieve, #10	% passing	71.1 (2000)	76.2 (2000)	85.9 (2000)	87.7 (2000)	89.3 (2000)	88.7 (2000)	90.8 (2000) [89.3 (2000)]	90.8 (2000)	98 (2000)	73.5 (2000)	87.9 (2000)	
Sieve, #20	% passing	63.3 (850)	70.1 (850)	80.3 (850)	69.8 (850)	75.7 (850)	63.5 (850)	63.2 (850) [62.1 (850)]	62.1 (850)	87.8 (850)	68.4 (850)	84.4 (850)	
Sieve, #40	% passing	50.1 (425)	66.5 (425)	71.6 (425)	44.4 (425)	48.4 (425)	29.4 (425)	30.4 (425) [30.1 (425)]	29.7 (425)	51.1 (425)	59.9 (425)	81.5 (425)	
Sieve, #60	% passing	32.9 (250)	43.4 (250)	46.9 (250)	14.6 (250)	10.4 (250)	9.6 (250)	8.1 (250) [8.8 (250)]	6.6 (250)	7.6 (250)	45.9 (250)	70.2 (250)	
Sieve, #80	% passing	19.8 (180)	23 (180)	31.9 (180)	7.6 (180)	3.8 (180)	6.2 (180)	4.5 (180) [5.3 (180)]	3.9 (180)	3.4 (180)	33.4 (180)	50 (180)	
Sieve, #100	% passing	14.3 (150)	17.4 (150)	25.2 (150)	6 (150)	3.1 (150)	5.8 (150)	3.8 (150) [4.7 (150)]	3.5 (150)	2.9 (150)	26.9 (150)	36.1 (150)	
Sieve, #200	% passing	7 (75)	12 (75)	11.4 (75)	3.1 (75)	2.2 (75)	5.3 (75)	3.1 (75) [4 (75)]	2.9 (75)	1.8 (75)	17.2 (75)	15.2 (75)	
Hydrometer Reading 1	% passing	4.2 (36)	4.4 (36)	10.3 (35)	2.1 (37)	2 (37)	1.3 (37)	1.3 (37) [1.3 (37)]	2.1 (37)	1.4 (37)	9.7 (35)	6.8 (36)	
Hydrometer Reading 2	% passing	3.7 (23)	3.4 (23)	8.3 (22)	2.1 (23)	1.4 (23)	0.8 (23)	1.3 (23) [1.3 (23)]	2.1 (23)	1.4 (23)	7.4 (23)	5 (23)	
Hydrometer Reading 3	% passing	2.6 (13.4)	2.9 (13.3)	6.3 (13)	1.5 (13.4)	0.8 (13.5)	0.8 (13.5)	0.7 (13.6) [1.3 (13.4)]	1.4 (13.5)	0.8 (13.6)	5.8 (13.2)	4.1 (13.3)	
Hydrometer Reading 4	% passing	2.1 (9.6)	2.3 (9.6)	5 (9.1)	0.9 (9.4)	0.8 (9.4)	0.2 (9.3)	0.7 (9.6) [0.8 (9.6)]	0.8 (9.6)	0.8 (9.5)	5.1 (9.3)	3.2 (9.6)	
Hydrometer Reading 5	% passing	1.6 (6.9)	1.7 (6.6)	3.5 (6.7)	0.8 (6.9)	0.8 (6.9)	-0.4 (6.9)	0.2 (6.7) [0.8 (6.8)]	0.8 (7)	-0.5 (7.1)	4.3 (6.7)	3.2 (6.8)	
Hydrometer Reading 6	% passing	1.1 (3.3)	1.1 (3.3)	2.9 (3.4)	0.7 (3.5)	0.8 (3.2)	-0.4 (3.3)	0.2 (3.3) [0.7 (3.3)]	0.2 (3.4)	-0.5 (3.5)	2.6 (3.3)	2.1 (3.3)	
Hydrometer Reading 7	% passing	1.1 (1.4)	1.1 (1.4)	2.1 (1.4)	0.7 (1.4)	0.8 (1.4)	-0.4 (1.4)	0.2 (1.4) [0.7 (1.4)]	0.2 (1.4)	-0.5 (1.4)	1.8 (1.4)	1.2 (1.4)	

See Notes on Page 14.

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Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56531 0 - 2 11/04/09 KPT23-6	K56532 2 - 6 11/04/09 KPT23-6	K56533 6 - 12 11/04/09 KPT23-6	K56534 12 - 24 11/04/09 KPT23-6	K56535 24 - 33 11/04/09 KPT23-6	K56536 0 - 2 11/04/09 KRT5-2	K56537 2 - 6 11/04/09 KRT5-2	K56538 6 - 12 11/04/09 KRT5-2	K56539 6 - 12 11/04/09 KRT5-2	K56540 12 - 19 11/04/09 KRT5-5	K56541 0 - 2 11/04/09 KRT5-5	K56542 2 - 6 11/04/09 KRT5-5	
PCB Aroclors														
Aroclor-1016	mg/kg	0.18 U	0.28 U	0.054 UJ	0.13 U	0.20 U	0.22 U	0.069 U	0.085 U	0.090 U	0.064 U	0.061 U	0.056 U	
Aroclor-1221	mg/kg	0.18 U	0.28 U	0.054 UJ	0.13 U	0.20 U	0.22 U	0.069 U	0.085 U	0.090 U	0.064 U	0.061 U	0.056 U	
Aroclor-1232	mg/kg	0.18 U	0.28 U	0.054 UJ	0.13 U	0.20 U	0.22 U	0.069 U	0.085 U	0.090 U	0.064 U	0.061 U	0.056 U	
Aroclor-1242	mg/kg	0.73	0.35	0.21 J	0.59	1.0	0.23	0.13	0.079 J	0.090 U	0.20	0.099	0.063	
Aroclor-1248	mg/kg	0.21	0.28 U	0.054 UJ	0.13 U	0.23	0.22 U	0.069 U	0.056 J	0.090 U	0.11	0.047 J	0.056 U	
Aroclor-1254	mg/kg	0.40	0.28 U	0.17 J	0.49	0.28	0.95	0.49	0.063 J	0.090 U	0.17	0.074	0.033 J	
Aroclor-1260	mg/kg	0.18 U	1.6	0.054 UJ	0.13 U	0.20 U	0.22 U	0.10	0.085 U	0.090 U	0.064 U	0.061 U	0.056 U	
Total PCBs	mg/kg	1.3	2.0	0.38 J	1.1	1.5	1.2	0.72	0.20 J	0.090 U	0.48	0.22	0.096 J	
Miscellaneous														
Percent Solids	%	83.8	89.5	92.8	79.2	79.4	71.4	74.4	59.3	55.5	76.1	81.9	90.8	
TOC														
Total Organic Carbon	mg/kg	36,200	2,050 J	37,000	7,920 J	4,600 J	10,400 J	8,510	38,800	43,900	2,560 J	5,140 J	550 J	
Grain Size Analysis														
Gravel	%	4.6	2.9	1.7	4.2	3.4	3.4	14.1	7.5	0	2.4	1.7	53.4	
Coarse Sand	%	9	10.8	9	7.7	7.1	2.2	8.7	2.1	0	5.2	5.6	10	
Medium Sand	%	44.8	62.2	67.4	49.9	54.4	4.8	12.2	4.7	1.1	45.9	63.9	22.2	
Fine Sand	%	36.7	22.9	20.2	34.5	30	86.1	54.7	68.4	44.5	42.8	26.5	12.2	
Silt	%	4.2	0.4	1.4	2.9	4.3	2.3	9.1	13.7	47.5	3	2.2	1.7	
Clay	%	0.7	0.8	0.4	0.9	0.8	1.2	1.3	3.7	7	0.7	0.1	0.4	
Grain Size Analysis - % passing (particle size, um)														
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	92.9 (25000)	
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	87.8 (19000)	
Sieve, 3/8 inch	% passing	98.9 (9500)	100 (9500)	99.5 (9500)	99.5 (9500)	99.1 (9500)	100 (9500)	98.2 (9500)	94.5 (9500)	100 (9500)	100 (9500)	100 (9500)	65.7 (9500)	
Sieve, #4	% passing	95.4 (4750)	97.1 (4750)	98.3 (4750)	95.8 (4750)	96.6 (4750)	96.6 (4750)	85.9 (4750)	92.5 (4750)	100 (4750)	97.6 (4750)	98.3 (4750)	46.6 (4750)	
Sieve, #10	% passing	86.4 (2000)	86.3 (2000)	89.3 (2000)	88.1 (2000)	89.6 (2000)	94.5 (2000)	77.2 (2000)	90.4 (2000)	100 (2000)	92.3 (2000)	92.7 (2000)	36.6 (2000)	
Sieve, #20	% passing	67.4 (850)	55.3 (850)	62.5 (850)	66.4 (850)	68.6 (850)	92.4 (850)	70.1 (850)	88.2 (850)	99.7 (850)	79.3 (850)	70.9 (850)	28.4 (850)	
Sieve, #40	% passing	41.6 (425)	24.1 (425)	22 (425)	38.2 (425)	35.2 (425)	89.7 (425)	65 (425)	85.8 (425)	98.9 (425)	46.5 (425)	28.8 (425)	14.4 (425)	
Sieve, #60	% passing	13.9 (250)	4.4 (250)	3.7 (250)	11.1 (250)	10.1 (250)	78.8 (250)	57.9 (250)	79.8 (250)	97.5 (250)	14.1 (250)	5.7 (250)	3.9 (250)	
Sieve, #80	% passing	7.8 (180)	1.7 (180)	2.1 (180)	5.6 (180)	6.5 (180)	38.3 (180)	39.6 (180)	56.1 (180)	91 (180)	6.9 (180)	3 (180)	2.5 (180)	
Sieve, #100	% passing	6.8 (150)	1.5 (150)	2 (150)	4.8 (150)	6 (150)	24.7 (150)	30.3 (150)	45.4 (150)	86 (150)	5.7 (150)	2.8 (150)	2.4 (150)	
Sieve, #200	% passing	4.9 (75)	1.2 (75)	1.8 (75)	3.7 (75)	5.2 (75)	3.5 (75)	10.3 (75)	17.4 (75)	54.4 (75)	3.7 (75)	2.3 (75)	2.2 (75)	
Hydrometer Reading 1	% passing	1.5 (37)	0.9 (37)	1 (37)	2.6 (36)	2.5 (36)	3 (37)	2.9 (37)	12.5 (36)	19.8 (35)	0.7 (37)	0.5 (37)	0.4 (37)	
Hydrometer Reading 2	% passing	1.5 (23)	0.9 (23)	1 (23)	2 (23)	2 (23)	3 (23)	2.9 (23)	10.3 (23)	16.6 (23)	0.7 (24)	0.5 (24)	0.4 (24)	
Hydrometer Reading 3	% passing	1.5 (13.5)	0.9 (13.5)	0.7 (13.6)	1.4 (13.4)	1.4 (13.4)	3 (13.5)	1.8 (13.5)	7 (13.3)	11.8 (13.2)	0.7 (13.6)	0.5 (13.6)	0.4 (13.6)	
Hydrometer Reading 4	% passing	0.7 (9.7)	0.8 (9.8)	0.4 (9.8)	1.4 (9.5)	1.4 (9.5)	1.2 (9.6)	1.3 (9.6)	5.9 (9.6)	8.6 (9.6)	0.7 (9.5)	0.1 (9.5)	0.4 (9.5)	
Hydrometer Reading 5	% passing	0.7 (7)	0.8 (6.9)	0.4 (6.7)	0.9 (6.8)	0.8 (6.8)	1.2 (6.9)	1.3 (6.9)	3.7 (6.9)	7 (6.5)	0.7 (6.8)	0.1 (6.9)	0.4 (6.9)	
Hydrometer Reading 6	% passing	0.7 (3.3)	0.4 (3.4)	0.4 (3.4)	0.3 (3.3)	0.3 (3.3)	1.2 (3.3)	0.7 (3.3)	2.8 (3.3)	4 (3.3)	0.2 (3.4)	0.1 (3.5)	0.4 (3.2)	
Hydrometer Reading 7	% passing	0.1 (1.4)	0.4 (1.4)	0.4 (1.4)	0.2 (1.4)	0.2 (1.4)	1.2 (1.4)	0.7 (1.4)	1.5 (1.4)	3.7 (1.4)	0.2 (1.4)	0.1 (1.4)	0.1 (1.4)	

See Notes on Page 14.

Georgia-Pacific LLC
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Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #37, March 2010

Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name:		K56543	K56544	K56545	K56546	K56547	K56568	K56569	K56570 [K56572]	K56571	K56573	K56574
Sample Depth(in):		10 - 12	12 - 15	15 - 21	21 - 24	24 - 30	2 - 6	6 - 12	12 - 24	24 - 36	0 - 2	2 - 6
Date Collected:		11/04/09	11/04/09	11/04/09	11/04/09	11/04/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09
Location ID:	Units	KRT5-5	KRT5-5	KRT5-5	KRT5-5	KRT5-5	KPT19-C	KPT19-C	KPT19-C	KPT19-C	KPT19-G	KPT19-G
PCB Aroclors												
Aroclor-1016	mg/kg	2.1 U	10 U	4.3 U	0.30 U	0.57 U	0.056 U	1.2 U	0.057 U [0.059 U]	0.059 U	0.058 U	0.057 U
Aroclor-1221	mg/kg	2.1 U	10 U	4.3 U	0.30 U	0.57 U	0.056 U	1.2 U	0.057 U [0.059 U]	0.059 U	0.058 U	0.057 U
Aroclor-1232	mg/kg	2.1 U	10 U	4.3 U	0.30 U	0.57 U	0.056 U	1.2 U	0.057 U [0.059 U]	0.059 U	0.058 U	0.057 U
Aroclor-1242	mg/kg	14	100	42	1.4	2.5	0.16	1.2 U	0.22 [0.12]	0.26	0.12	0.14
Aroclor-1248	mg/kg	2.1 U	10 U	4.3 U	0.30 U	0.57 U	0.056 U	8.7	0.057 U [0.12]	0.27	0.058 U	0.057 U
Aroclor-1254	mg/kg	1.6 J	8.3 J	13	0.44	0.47 J	0.055 J	11	0.33 [0.14]	0.22	0.084	0.082
Aroclor-1260	mg/kg	2.1 U	10 U	4.3 U	0.30 U	0.57 U	0.056 U	1.2 U	0.057 U [0.059 U]	0.059 U	0.058 U	0.057 U
Total PCBs	mg/kg	16	110	55	1.8	3.0	0.22	20	0.55 [0.38]	0.75	0.20	0.22
Miscellaneous												
Percent Solids	%	74.1	49.4	59.2	82.7	83	87.6	79.8	84.2 [84.2]	82.8	80.7	82.2
TOC												
Total Organic Carbon	mg/kg	39,100	70,300	22,800	2,000 J	2,570 J	6,960 J	15,700 J	1,610 [1,310]	4,300 J	2,740 J	2,650 J
Grain Size Analysis												
Gravel	%	20.3	0	1.1	4.4	25.1	11.6	1	0.1 [0.4]	1	0.5	0
Coarse Sand	%	16.3	1.3	0.8	2.3	12	18.3	5.8	3.9 [3.5]	4.5	0.5	1
Medium Sand	%	33.1	17.3	19.8	44.8	31.5	43.3	46.5	37.9 [39.8]	33.3	23.8	36.6
Fine Sand	%	20.6	35.9	56	44.8	26.2	26.3	44.7	56.9 [54.5]	58	73.5	60.8
Silt	%	8.2	29.9	17.5	2.8	4.6	0.4	1.4	0.8 [1.8]	2.8	1.5	1.5
Clay	%	1.4	15.6	4.8	1	0.7	0.1	0.6	0.4 [0.1]	0.4	0.2	0.1
Grain Size Analysis - % passing (particle size, um)												
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	93.4 (9500)	100 (9500)	99.3 (9500)	98.4 (9500)	92.8 (9500)	96.9 (9500)	100 (9500)	100 (9500) [100 (9500)]	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing	79.7 (4750)	100 (4750)	98.9 (4750)	95.6 (4750)	74.9 (4750)	88.4 (4750)	99 (4750)	99.9 (4750) [99.6 (4750)]	99 (4750)	99.5 (4750)	100 (4750)
Sieve, #10	% passing	63.4 (2000)	98.7 (2000)	98.2 (2000)	93.3 (2000)	63 (2000)	70.1 (2000)	93.2 (2000)	96 (2000) [96.1 (2000)]	94.5 (2000)	99 (2000)	99 (2000)
Sieve, #20	% passing	49.6 (850)	96.2 (850)	95.2 (850)	87.1 (850)	51.7 (850)	51.5 (850)	75.8 (850)	85.2 (850) [85.3 (850)]	84 (850)	96.1 (850)	91.8 (850)
Sieve, #40	% passing	30.2 (425)	81.4 (425)	78.3 (425)	48.5 (425)	31.5 (425)	26.8 (425)	46.7 (425)	58 (425) [56.3 (425)]	61.2 (425)	75.2 (425)	62.3 (425)
Sieve, #60	% passing	15.8 (250)	62.6 (250)	40.4 (250)	6.3 (250)	9.2 (250)	3.5 (250)	7.9 (250)	9.8 (250) [9.6 (250)]	14.1 (250)	28.2 (250)	17.8 (250)
Sieve, #80	% passing	12.2 (180)	56.5 (180)	29.4 (180)	4 (180)	6.5 (180)	0.9 (180)	3.7 (180)	2 (180) [2.6 (180)]	4.1 (180)	7.9 (180)	4.7 (180)
Sieve, #100	% passing	11.7 (150)	55.4 (150)	28.2 (150)	4 (150)	6.3 (150)	0.7 (150)	3.2 (150)	1.5 (150) [2.1 (150)]	3.5 (150)	4.1 (150)	2.7 (150)
Sieve, #200	% passing	9.6 (75)	45.5 (75)	22.4 (75)	3.8 (75)	5.3 (75)	0.5 (75)	2 (75)	1.1 (75) [1.8 (75)]	3.2 (75)	1.7 (75)	1.6 (75)
Hydrometer Reading 1	% passing	4.5 (37)	28.8 (35)	9.5 (35)	1.4 (37)	3 (36)	0.5 (37)	1.5 (37)	1.1 (37) [0.9 (37)]	1.1 (37)	1.5 (37)	0.7 (37)
Hydrometer Reading 2	% passing	3.5 (23)	25 (22)	8.2 (22)	1.4 (23)	3 (23)	0.5 (24)	1 (23)	0.8 (23) [0.9 (23)]	0.8 (23)	1.5 (23)	0.7 (23)
Hydrometer Reading 3	% passing	2.4 (13.5)	21.3 (13)	7.5 (13)	1.4 (13.5)	1.8 (13.5)	0.5 (13.6)	1 (13.5)	0.8 (13.5) [0.5 (13.5)]	0.8 (13.6)	1.5 (13.5)	0.7 (13.5)
Hydrometer Reading 4	% passing	2.4 (9.3)	17.5 (9.3)	6.2 (9.3)	1 (9.6)	1.8 (9.4)	0.1 (9.5)	0.6 (9.4)	0.8 (9.4) [0.5 (9.6)]	0.4 (9.3)	0.2 (9.7)	0.6 (9.6)
Hydrometer Reading 5	% passing	1.4 (6.8)	15.6 (6.4)	4.8 (6.8)	1 (6.6)	0.7 (7)	0.1 (6.8)	0.6 (6.8)	0.4 (6.9) [0.1 (6.7)]	0.4 (6.8)	0.2 (7)	0.1 (6.7)
Hydrometer Reading 6	% passing	0.3 (3.3)	8.1 (3.3)	3.5 (3.3)	0.6 (3.4)	0.2 (3.4)	0.1 (3.4)	0.1 (3.4)	0.4 (3.2) [0.1 (3.3)]	0.1 (3.3)	0.2 (3.4)	0.1 (3.4)
Hydrometer Reading 7	% passing	0.3 (1.4)	6.3 (1.4)	2.2 (1.4)	0.6 (1.4)	0.2 (1.4)	0.1 (1.4)	0.1 (1.4)	0.4 (1.4) [0.1 (1.4)]	0.1 (1.4)	0.2 (1.4)	0.1 (1.4)

See Notes on Page 14.

Georgia-Pacific LLC
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Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #37, March 2010

Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56575 6 - 12 11/05/09 KPT19-G	K56576 12 - 20 11/05/09 KPT19-G	K56577 20 - 24 11/05/09 KPT19-G	K56578 24 - 30 11/05/09 KPT19-G	K56579 0 - 2 11/05/09 KPT19-E	K56580 2 - 6 11/05/09 KPT19-E	K56581 6 - 12 11/05/09 KPT19-E	K56582 12 - 15 11/05/09 KPT19-E	K56583 0 - 2 11/05/09 KPT19-F	K56584 2 - 6 11/05/09 KPT19-F	K56585 6 - 12 11/05/09 KPT19-F	
PCB Aroclors													
Aroclor-1016	mg/kg	0.057 U	0.30 U	3.0 U	5.3 U	0.11 U	0.11 U	0.053 UJ	0.054 U	0.055 U	0.052 U	0.054 U	
Aroclor-1221	mg/kg	0.057 U	0.30 U	3.0 U	5.3 U	0.11 U	0.11 U	0.053 UJ	0.054 U	0.055 U	0.052 U	0.054 U	
Aroclor-1232	mg/kg	0.057 U	0.30 U	3.0 U	5.3 U	0.11 U	0.11 U	0.053 UJ	0.054 U	0.055 U	0.052 U	0.054 U	
Aroclor-1242	mg/kg	0.18	3.0	35	73	0.11 U	0.11 U	0.034 J	0.054 U	0.074	0.19	0.28	
Aroclor-1248	mg/kg	0.057 U	0.30 U	3.0 U	5.3 U	0.77	0.31	0.053 UJ	0.094	0.055 U	0.052 U	0.054 U	
Aroclor-1254	mg/kg	0.11	1.3	7.1	16	0.64	0.37	0.062 J	0.11	0.030 J	0.033 J	0.15	
Aroclor-1260	mg/kg	0.057 U	0.30 U	3.0 U	5.3 U	0.11 J	0.11 U	0.053 UJ	0.054 U	0.055 U	0.052 U	0.054 U	
Total PCBs	mg/kg	0.29	4.3	42	89	1.5	0.68	0.096 J	0.20	0.10	0.22	0.43	
Miscellaneous													
Percent Solids	%	85.7	78.4	32.8	43.3	79.9	85.7	87.6	89.4	87.8	91.7	84.5	
TOC													
Total Organic Carbon	mg/kg	1,680 J	5,260 J	93,100	71,300	8,250	13,100 J	19,800 J	3,090 J	12,900 J	1,410	13,800	
Grain Size Analysis													
Gravel	%	1	0.7	0	0	21.4	35.1	30.9	29.1	8.3	24.5	17.2	
Coarse Sand	%	3.1	3.2	0.3	0	12.1	19.1	17.8	19.8	38.2	42.6	32	
Medium Sand	%	42.2	35.1	1.9	0.6	23.3	23.4	27.6	29.1	36.3	24.3	33	
Fine Sand	%	52	52.3	35.6	27.1	37.6	19.8	22.6	20.3	13.9	8.4	15.4	
Silt	%	1.1	7.8	45.5	47.9	4.8	2	0.7	1.2	3.2	0.5	2.4	
Clay	%	0.5	1	16.7	24.4	0.7	0.6	0.4	0.5	0.1	-0.3	0.1	
Grain Size Analysis - % passing (particle size, um)													
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	93.9 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	97.9 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	99.6 (9500)	100 (9500)	100 (9500)	100 (9500)	88.8 (9500)	78.3 (9500)	84.9 (9500)	88 (9500)	99.6 (9500)	94.8 (9500)	94.7 (9500)	
Sieve, #4	% passing	99 (4750)	99.3 (4750)	100 (4750)	100 (4750)	78.6 (4750)	64.9 (4750)	69.1 (4750)	70.9 (4750)	91.7 (4750)	75.5 (4750)	82.8 (4750)	
Sieve, #10	% passing	95.8 (2000)	96.1 (2000)	99.7 (2000)	100 (2000)	66.5 (2000)	45.7 (2000)	51.3 (2000)	51.1 (2000)	53.5 (2000)	32.9 (2000)	50.9 (2000)	
Sieve, #20	% passing	84.2 (850)	85.4 (850)	99 (850)	99.7 (850)	58.2 (850)	35.3 (850)	39.6 (850)	38 (850)	29.1 (850)	16.7 (850)	31.7 (850)	
Sieve, #40	% passing	53.6 (425)	61.1 (425)	97.8 (425)	99.4 (425)	43.2 (425)	22.3 (425)	23.7 (425)	21.9 (425)	17.2 (425)	8.5 (425)	17.8 (425)	
Sieve, #60	% passing	13.9 (250)	27.2 (250)	94.7 (250)	97.8 (250)	19.8 (250)	8.1 (250)	5.9 (250)	6.8 (250)	8.9 (250)	1.5 (250)	4.5 (250)	
Sieve, #80	% passing	3.7 (180)	15.6 (180)	88.7 (180)	91.4 (180)	11.6 (180)	4.4 (180)	2.2 (180)	3.1 (180)	6.1 (180)	0.5 (180)	2.7 (180)	
Sieve, #100	% passing	2.3 (150)	13 (150)	83.1 (150)	86.4 (150)	9.3 (150)	3.7 (150)	1.7 (150)	2.5 (150)	5 (150)	0.3 (150)	2.6 (150)	
Sieve, #200	% passing	1.6 (75)	8.8 (75)	62.2 (75)	72.3 (75)	5.6 (75)	2.5 (75)	1.1 (75)	1.7 (75)	3.3 (75)	0.2 (75)	2.5 (75)	
Hydrometer Reading 1	% passing	0.9 (37)	2.4 (36)	30.7 (35)	37.7 (35)	4.6 (36)	1.6 (37)	1.1 (37)	1.2 (37)	0.1 (37)	0.1 (37)	0.4 (37)	
Hydrometer Reading 2	% passing	0.9 (23)	2 (23)	26 (22)	32.3 (22)	2.7 (23)	1.6 (23)	1.1 (23)	1.2 (23)	0.1 (24)	0.1 (24)	0.4 (23)	
Hydrometer Reading 3	% passing	0.9 (13.5)	1.5 (13.4)	21.4 (13.1)	30.1 (12.9)	2 (13.4)	1.6 (13.4)	1.1 (13.4)	1.2 (13.4)	0.1 (13.6)	0.1 (13.6)	0.4 (13.6)	
Hydrometer Reading 4	% passing	0.5 (9.4)	1 (9.5)	21.4 (9.2)	27.5 (9.3)	1.4 (9.7)	1 (9.4)	0.7 (9.4)	0.5 (9.4)	0.1 (9.3)	-0.3 (9.7)	0.1 (9.6)	
Hydrometer Reading 5	% passing	0.5 (6.9)	1 (6.8)	16.7 (6.7)	24.4 (6.6)	0.7 (6.6)	0.6 (6.8)	0.4 (6.8)	0.5 (6.8)	0.1 (6.8)	-0.3 (6.7)	0.1 (7)	
Hydrometer Reading 6	% passing	0.1 (3.5)	0.6 (3.3)	14.4 (3.2)	13.7 (3.3)	0.7 (3.3)	0.6 (3.4)	0.4 (3.4)	0.5 (3.2)	0.1 (3.3)	-0.3 (3.3)	0.1 (3.4)	
Hydrometer Reading 7	% passing	0.1 (1.4)	0.6 (1.4)	7.4 (1.4)	8.4 (1.4)	0.1 (1.4)	0.2 (1.4)	0.1 (1.4)	0.5 (1.4)	0.1 (1.4)	-0.3 (1.4)	-0.3 (1.4)	

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Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #37, March 2010

Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56586 [K56588] 12 - 24 11/05/09 KPT19-F	K56587 24 - 36 11/05/09 KPT19-F	K56589 0 - 2 11/10/09 S-IM1-8	K56590 2 - 6 11/10/09 S-IM1-8	K56591 6 - 12 11/10/09 S-IM1-8	K56592 [K56596] 12 - 24 11/10/09 S-IM1-8	K56593 24 - 36 11/10/09 S-IM1-8	K56594 36 - 48 11/10/09 S-IM1-8	K56595 48 - 50 11/10/09 S-IM1-8	K56597 0 - 2 11/10/09 S-IM1-7	
PCB Aroclors												
Aroclor-1016	mg/kg	0.24 U [0.055 U]	0.30 U	0.065 U	0.11 U	0.15 U	0.37 U [0.26 U]	0.055 U	0.059 U	0.072 U	0.064 U	
Aroclor-1221	mg/kg	0.24 U [0.055 U]	0.30 U	0.065 U	0.11 U	0.15 U	0.37 U [0.26 U]	0.055 U	0.059 U	0.072 U	0.064 U	
Aroclor-1232	mg/kg	0.24 U [0.055 U]	0.30 U	0.065 U	0.11 U	0.15 U	0.37 U [0.26 U]	0.055 U	0.059 U	0.072 U	0.064 U	
Aroclor-1242	mg/kg	1.2 J [0.35 J]	2.6	0.48	1.3	1.3	2.9 [1.5]	0.62	0.20	0.13	0.28	
Aroclor-1248	mg/kg	0.32 J [0.055 UJ]	0.30 U	0.065 U	0.33	0.15 U	0.37 U [0.26 U]	0.055 U	0.059 U	0.072 U	0.064 U	
Aroclor-1254	mg/kg	1.4 J [0.28 J]	0.85	0.086	0.46	0.27	0.55 [1.2]	0.15	0.059 U	0.072 U	0.12	
Aroclor-1260	mg/kg	0.24 U [0.055 U]	0.30 U	0.047 J	0.11	0.11 J	0.37 U [0.21 J]	0.055 U	0.059 U	0.055 J	0.061 J	
Total PCBs	mg/kg	2.9 J [0.63 J]	3.5	0.61	2.2	1.7	3.5 [2.9]	0.77	0.20	0.19	0.46	
Miscellaneous												
Percent Solids	%	81.3 [85.1]	83.8	76.9	46.3	63	66.1 [55.9]	88.2	80.1	68.3	75.8	
TOC												
Total Organic Carbon	mg/kg	1,350 J [1,300 J]	4,200 J	7,900	44,900	30,600	29,000 [31,500 J]	13,700 J	4,280 J	11,300 J	12,400	
Grain Size Analysis												
Gravel	%	2.7 [1.8]	5.6	0	0.8	0.6	0.2 [0.1]	22.2	10.7	0	0	
Coarse Sand	%	13.9 [13.5]	21.6	0.8	0.7	0.2	0.3 [0.5]	29.5	8.3	0	0	
Medium Sand	%	42.5 [42.7]	55.3	1.8	5.8	5.2	3.5 [3.7]	25.6	41.1	9.7	1.1	
Fine Sand	%	37.4 [39.4]	15.7	94.9	83.2	81.1	87.9 [91.6]	20.6	37	80.6	95.2	
Silt	%	3.1 [2.1]	0.9	1.6	7.1	9.6	6.1 [2.5]	1.5	2.3	6.9	3.3	
Clay	%	0.4 [0.4]	0.9	1	2.3	3.3	2.1 [1.6]	0.6	0.6	2.8	0.4	
Grain Size Analysis - % passing (particle size, um)												
Sieve, 3 inch	% passing	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	99.9 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	96.6 (19000)	100 (19000)	100 (19000)	
Sieve, 3/8 inch	% passing	99.7 (9500) [100 (9500)]	99.7 (9500)	100 (9500)	99.6 (9500)	99.6 (9500)	100 (9500) [100 (9500)]	92.8 (9500)	92 (9500)	100 (9500)	100 (9500)	
Sieve, #4	% passing	97.3 (4750) [98.2 (4750)]	94.4 (4750)	100 (4750)	99.2 (4750)	99.4 (4750)	99.8 (4750) [99.9 (4750)]	77.8 (4750)	89.3 (4750)	100 (4750)	100 (4750)	
Sieve, #10	% passing	83.4 (2000) [84.7 (2000)]	72.8 (2000)	99.2 (2000)	98.5 (2000)	99.2 (2000)	99.5 (2000) [99.5 (2000)]	48.3 (2000)	80.9 (2000)	100 (2000)	100 (2000)	
Sieve, #20	% passing	66 (850) [67.6 (850)]	46.6 (850)	98.8 (850)	97.2 (850)	98 (850)	98.7 (850) [98.7 (850)]	33.8 (850)	67.9 (850)	99.3 (850)	99.9 (850)	
Sieve, #40	% passing	40.9 (425) [42 (425)]	17.5 (425)	97.5 (425)	92.7 (425)	94 (425)	96.1 (425) [95.8 (425)]	22.7 (425)	39.9 (425)	90.3 (425)	98.9 (425)	
Sieve, #60	% passing	9.8 (250) [9.8 (250)]	5.3 (250)	72.1 (250)	67.3 (250)	79.3 (250)	81.6 (250) [80.5 (250)]	11.3 (250)	8.2 (250)	42.9 (250)	91 (250)	
Sieve, #80	% passing	4.2 (180) [3.3 (180)]	3.4 (180)	24.3 (180)	32.6 (180)	50.2 (180)	45.2 (180) [46 (180)]	6.2 (180)	4.2 (180)	17.9 (180)	50.9 (180)	
Sieve, #100	% passing	3.7 (150) [2.8 (150)]	2.9 (150)	13.1 (150)	21.4 (150)	35.6 (150)	29.6 (150) [28.6 (150)]	4.2 (150)	3.6 (150)	13.5 (150)	24.1 (150)	
Sieve, #200	% passing	3.5 (75) [2.5 (75)]	1.8 (75)	2.5 (75)	9.5 (75)	13 (75)	8.2 (75) [4.1 (75)]	2 (75)	2.8 (75)	9.6 (75)	3.7 (75)	
Hydrometer Reading 1	% passing	0.7 (37) [0.7 (37)]	1.5 (37)	2.4 (37)	5.1 (36)	7.2 (36)	3.9 (36) [3.7 (37)]	1.4 (37)	1.4 (37)	6.4 (37)	1.7 (37)	
Hydrometer Reading 2	% passing	0.7 (23) [0.7 (23)]	1.3 (23)	2.4 (23)	5.1 (23)	7.2 (23)	3.3 (23) [3.7 (23)]	1.4 (23)	1.4 (23)	6.4 (23)	1.7 (24)	
Hydrometer Reading 3	% passing	0.4 (13.6) [0.7 (13.5)]	1.3 (13.4)	2.4 (13.5)	3.7 (13.4)	4.9 (13.3)	2.7 (13.4) [2.3 (13.5)]	0.6 (13.6)	0.6 (13.6)	4 (13.5)	1.7 (13.6)	
Hydrometer Reading 4	% passing	0.4 (9.6) [0.4 (9.4)]	0.9 (9.6)	1 (9.6)	3 (9.5)	4.1 (9.6)	2.1 (9.7) [2.3 (9.2)]	0.6 (9.5)	0.6 (9.5)	4 (9.4)	0.4 (9.7)	
Hydrometer Reading 5	% passing	0.4 (6.6) [0.4 (7)]	0.9 (6.8)	1 (6.9)	2.3 (6.9)	3.3 (6.8)	2.1 (6.6) [1.6 (6.8)]	0.6 (6.8)	0.6 (6.9)	2.8 (6.8)	0.4 (6.7)	
Hydrometer Reading 6	% passing	0.4 (3.4) [0.4 (3.4)]	0.6 (3.3)	1 (3.3)	1.7 (3.3)	2.7 (3.3)	1.4 (3.3) [1.1 (3.3)]	0.6 (3.4)	0.6 (3.4)	2.8 (3.2)	0.4 (3.3)	
Hydrometer Reading 7	% passing	0.1 (1.4) [0.5 (1.4)]	0.6 (1.4)	1 (1.4)	0.9 (1.4)	2.6 (1.4)	0.8 (1.4) [0.9 (1.4)]	0.1 (1.4)	0.1 (1.4)	1.6 (1.4)	0.4 (1.4)	

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Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #37, March 2010

Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56598 2 - 6 11/10/09 S-IM1-7	K56599 6 - 10 11/10/09 S-IM1-7	K56600 10 - 15 11/10/09 S-IM1-7	K56601 15 - 24 11/10/09 S-IM1-7	K56602 24 - 28 11/10/09 S-IM1-7	K56603 28 - 30 11/10/09 S-IM1-7	K56604 0 - 2 11/10/09 S-IM1-6	K56605 2 - 6 11/10/09 S-IM1-6	K56606 6 - 12 11/10/09 S-IM1-6	K56607 12 - 15 11/10/09 S-IM1-6	K56608 15 - 19 11/10/09 S-IM1-6	K56609 0 - 2 11/10/09 S-IM1-3	
PCB Aroclors														
Aroclor-1016	mg/kg	0.14 U	0.40 U	5.5 U	0.18 U	0.23 U	0.35 U	0.064 U	0.068 U	0.35 U	2.1 U	12 U	15 U	
Aroclor-1221	mg/kg	0.14 U	0.40 U	5.5 U	0.18 U	0.23 U	0.35 U	0.064 U	0.068 U	0.35 U	2.1 U	12 U	15 U	
Aroclor-1232	mg/kg	0.14 U	0.40 U	5.5 U	0.18 U	0.23 U	0.35 U	0.064 U	0.068 U	0.35 U	2.1 U	12 U	15 U	
Aroclor-1242	mg/kg	0.93	2.4	48	1.9	0.91	1.7	0.32	0.46	1.7	20 J	84 J	73	
Aroclor-1248	mg/kg	0.14 U	0.76	8.2	0.18 U	0.23 U	0.35 U	0.064 U	0.068 U	0.59	2.1 U	30 J	48	
Aroclor-1254	mg/kg	0.35	0.74	20	0.85	0.26	0.39	0.13	0.058 J	0.19 J	2.1 J	30 J	68	
Aroclor-1260	mg/kg	0.14 U	0.40 U	2.9 J	0.18 U	0.23 U	0.35 U	0.064 U	0.057 J	0.35 U	2.1 U	9.8 J	15 U	
Total PCBs	mg/kg	1.3	3.9	79	2.8	1.2	2.1	0.45	0.58	2.5	22 J	150 J	190	
Miscellaneous														
Percent Solids	%	68.2	47.8	42.5	85.4	81.6	72.4	70.8	69.8	67.9	70.9	40	33.7	
TOC														
Total Organic Carbon	mg/kg	24,000 J	116,000	74,000	7,370 J	4,110	33,400	7,630 J	9,870 J	33,200 J	24,400	88,500	133,000	
Grain Size Analysis														
Gravel	%	0	0.3	1.1	22.7	6	15.5	0	0	0.8	1	2.7	0.1	
Coarse Sand	%	0	0.7	0.6	36.6	18.1	16.3	0	0	0.8	0.7	2.4	0.9	
Medium Sand	%	4.5	5.3	11.9	23.7	52.1	39.2	2.9	3.1	7	13.8	20.3	12.6	
Fine Sand	%	89.2	84.4	35.6	11.4	21.8	20	94.1	95.6	88.4	77.5	48.2	30.5	
Silt	%	3.2	6.7	32.8	4.4	1.5	6.3	2.2	1.3	2.2	5	17	43	
Clay	%	3.1	2.6	18	1.1	0.5	2.6	0.8	0.1	0.8	2.1	9.3	12.9	
Grain Size Analysis - % passing (particle size, um)														
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	
Sieve, 3/8 inch	% passing	100 (9500)	99.9 (9500)	100 (9500)	96.6 (9500)	100 (9500)	92.2 (9500)	100 (9500)	100 (9500)	99.8 (9500)	99.6 (9500)	99.7 (9500)	100 (9500)	
Sieve, #4	% passing	100 (4750)	99.7 (4750)	98.9 (4750)	77.3 (4750)	94 (4750)	84.5 (4750)	100 (4750)	100 (4750)	99.2 (4750)	99 (4750)	97.3 (4750)	99.9 (4750)	
Sieve, #10	% passing	100 (2000)	99 (2000)	98.3 (2000)	40.6 (2000)	75.9 (2000)	68.2 (2000)	100 (2000)	100 (2000)	98.5 (2000)	98.4 (2000)	94.9 (2000)	99 (2000)	
Sieve, #20	% passing	99.1 (850)	97 (850)	97 (850)	23.6 (850)	48.7 (850)	48.2 (850)	99.3 (850)	98.9 (850)	97.2 (850)	94.6 (850)	87.4 (850)	95.1 (850)	
Sieve, #40	% passing	95.5 (425)	93.7 (425)	86.3 (425)	16.9 (425)	23.8 (425)	28.9 (425)	97.1 (425)	96.9 (425)	91.4 (425)	84.5 (425)	74.6 (425)	86.4 (425)	
Sieve, #60	% passing	86.7 (250)	85.3 (250)	76.1 (250)	9.2 (250)	6.3 (250)	14 (250)	82.6 (250)	58.3 (250)	44.4 (250)	41.9 (250)	48.8 (250)	78.6 (250)	
Sieve, #80	% passing	53.9 (180)	59.6 (180)	65.8 (180)	6.9 (180)	3.3 (180)	11.8 (180)	35 (180)	18.4 (180)	18.9 (180)	17.8 (180)	35 (180)	72.8 (180)	
Sieve, #100	% passing	30.2 (150)	38.4 (150)	61.5 (150)	6.4 (150)	2.7 (150)	11.1 (150)	17.7 (150)	8.7 (150)	11.4 (150)	12.6 (150)	31.1 (150)	69.6 (150)	
Sieve, #200	% passing	6.3 (75)	9.3 (75)	50.7 (75)	5.5 (75)	2 (75)	8.9 (75)	3 (75)	1.4 (75)	3 (75)	7.1 (75)	26.4 (75)	55.9 (75)	
Hydrometer Reading 1	% passing	5.5 (36)	5.8 (36)	29.1 (35)	2.7 (37)	1.6 (37)	5.2 (36)	1.5 (37)	0.8 (37)	2.3 (37)	4 (37)	18.3 (36)	25.1 (36)	
Hydrometer Reading 2	% passing	5.5 (23)	5.1 (23)	24.4 (22)	2.2 (23)	1.6 (23)	4.4 (23)	1.5 (23)	0.8 (24)	2.3 (23)	3.4 (23)	16.5 (23)	25.1 (23)	
Hydrometer Reading 3	% passing	4.4 (13.2)	4.3 (13.3)	24.4 (13)	1.7 (13.5)	0.6 (13.6)	2.8 (13.5)	0.9 (13.6)	0.8 (13.6)	1.6 (13.5)	2.1 (13.6)	12.9 (13.3)	25.1 (13.3)	
Hydrometer Reading 4	% passing	3.2 (9.4)	3.4 (9.5)	20.1 (9.1)	1.6 (9.6)	0.5 (9.7)	2.6 (9.8)	0.8 (9.8)	0.7 (9.5)	0.8 (9.5)	2.1 (9.4)	12.9 (9.1)	16.9 (9.3)	
Hydrometer Reading 5	% passing	3.1 (6.9)	2.6 (6.6)	18 (6.8)	1.1 (6.9)	0.5 (7)	2.6 (6.9)	0.8 (6.7)	0.1 (6.9)	0.8 (6.9)	2.1 (6.8)	9.3 (6.7)	12.9 (6.9)	
Hydrometer Reading 6	% passing	2 (3.3)	1.8 (3.4)	11.9 (3.4)	0.6 (3.3)	0.1 (3.3)	0.1 (3.4)	0.1 (3.4)	-0.5 (3.4)	0.1 (3.5)	0.8 (3.3)	5.7 (3.3)	8.8 (3.4)	
Hydrometer Reading 7	% passing	0.8 (1.4)	1 (1.4)	7.2 (1.4)	0.6 (1.4)	-0.4 (1.4)	-0.7 (1.4)	-0.6 (1.4)	-0.5 (1.4)	-0.6 (1.4)	0.1 (1.4)	5.7 (1.4)	4.1 (1.4)	

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Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name:		K56610 2 - 6	K56611 6 - 12	K56612 [K56614] 12 - 24	K56613 24 - 27	K56615 0 - 2	K56616 2 - 6	K56617 6 - 12	K56618 12 - 17	K56619 0 - 2	K56620 2 - 5	K56621 5 - 12	
Sample Depth(in):		11/10/09	11/10/09	11/10/09	11/10/09	11/10/09	11/10/09	11/10/09	11/10/09	11/10/09	11/10/09	11/10/09	
Date Collected:		S-IM1-3	S-IM1-3	S-IM1-3	S-IM1-3	S-IM1-4	S-IM1-4	S-IM1-4	S-IM1-4	S-IM1-5	S-IM1-5	S-IM1-5	
Location ID:	Units	PCB Aroclors											
Aroclor-1016	mg/kg	13 U	13 U	2.4 U [2.4 U]	0.059 U	13 U	7.8 U	1.5 U	0.38 UJ	0.22 U	11 U	13 U	
Aroclor-1221	mg/kg	13 U	13 U	2.4 U [2.4 U]	0.059 U	13 U	7.8 U	1.5 U	0.38 UJ	0.22 U	11 U	13 U	
Aroclor-1232	mg/kg	13 U	13 U	2.4 U [2.4 U]	0.059 U	13 U	7.8 U	1.5 U	0.38 UJ	0.22 U	11 U	13 U	
Aroclor-1242	mg/kg	83	66	11 [11]	0.059 U	130	76	14	1.8 J	1.3	83	120	
Aroclor-1248	mg/kg	14	10 J	3.2 [3.3]	0.044 J	13 U	7.8 U	1.5 U	0.38 UJ	0.25	11 U	13 U	
Aroclor-1254	mg/kg	67	51	15 [15]	0.059 U	32	68	8.4	1.3 J	0.50	9.9 J	8.5 J	
Aroclor-1260	mg/kg	8.6 J	13 U	2.4 U [2.4 U]	0.049 J	13 U	7.8 U	1.5 U	0.38 UJ	0.22 U	11 U	13 J	
Total PCBs	mg/kg	170	130	29 [29]	0.093 J	160	140	22	3.1 J	2.1	93 J	140	
Miscellaneous													
Percent Solids	%	37.3	37.8	41.6 [41.2]	80.6	38.7	31.8	31.8	65.8	66.7	44.2	37.1	
TOC													
Total Organic Carbon	mg/kg	122,000	129,000	98,300 [113,000]	7,700 J	96,600	111,000	141,000 J	80,200	30,200 J	167,000	142,000	
Grain Size Analysis													
Gravel	%	0	0	0 [0]	3.4	6.1	0	0	4.3	0	0	0	
Coarse Sand	%	0.4	0.3	0.9 [0.5]	8.8	0.5	0.2	0.2	8.3	0.4	0.4	0.8	
Medium Sand	%	10.6	7.5	4 [6.7]	24.8	5.6	1.6	3.3	28.1	1.5	5.6	6.7	
Fine Sand	%	22.3	18.1	17.2 [24.1]	53.8	19.4	11.7	38.5	44.3	93.8	70.6	35	
Silt	%	43.9	52.4	57.5 [48.8]	4.4	31.8	43.9	35	9.5	2.8	18.6	29.2	
Clay	%	22.8	21.6	20.5 [20]	4.8	36.6	42.7	23	5.5	1.5	4.8	28.3	
Grain Size Analysis - % passing (particle size, um)													
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	
Sieve, 3/8 inch	% passing	100 (9500)	100 (9500)	100 (9500) [100 (9500)]	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	
Sieve, #4	% passing	100 (4750)	100 (4750)	100 (4750) [100 (4750)]	96.6 (4750)	93.9 (4750)	100 (4750)	100 (4750)	95.7 (4750)	100 (4750)	100 (4750)	100 (4750)	
Sieve, #10	% passing	99.6 (2000)	99.7 (2000)	99.1 (2000) [99.5 (2000)]	87.8 (2000)	93.4 (2000)	99.8 (2000)	99.8 (2000)	87.4 (2000)	99.6 (2000)	99.6 (2000)	99.2 (2000)	
Sieve, #20	% passing	95.6 (850)	97.6 (850)	98 (850) [98.8 (850)]	77.7 (850)	92.1 (850)	99.6 (850)	98.8 (850)	76.3 (850)	99.2 (850)	98.5 (850)	97.7 (850)	
Sieve, #40	% passing	89 (425)	92.1 (425)	95.2 (425) [92.8 (425)]	63 (425)	87.8 (425)	98.2 (425)	96.5 (425)	59.3 (425)	98.1 (425)	94 (425)	92.5 (425)	
Sieve, #60	% passing	83.4 (250)	87.2 (250)	91.1 (250) [85.9 (250)]	27.3 (250)	81.9 (250)	96 (250)	87.1 (250)	39.5 (250)	93.4 (250)	83.4 (250)	83.8 (250)	
Sieve, #80	% passing	79.5 (180)	84.1 (180)	88 (180) [81.4 (180)]	15.3 (180)	77.6 (180)	94.2 (180)	76.3 (180)	29 (180)	67 (180)	69.1 (180)	75.1 (180)	
Sieve, #100	% passing	77.3 (150)	82.4 (150)	86.4 (150) [78.9 (150)]	12.9 (150)	75.8 (150)	93.3 (150)	71.3 (150)	24.5 (150)	39.3 (150)	57.4 (150)	70.7 (150)	
Sieve, #200	% passing	66.7 (75)	74 (75)	78 (75) [68.8 (75)]	9.2 (75)	68.4 (75)	86.6 (75)	58 (75)	15 (75)	4.3 (75)	23.4 (75)	57.5 (75)	
Hydrometer Reading 1	% passing	40.4 (34)	35.4 (35)	38.1 (35) [37.5 (35)]	8.5 (36)	58.9 (34)	66.8 (33)	33.6 (35)	9.7 (36)	3.6 (37)	7.9 (37)	39.9 (35)	
Hydrometer Reading 2	% passing	36 (22)	33.1 (22)	33.7 (22) [35.3 (22)]	6.7 (23)	56.1 (22)	61.6 (21)	31.6 (22)	8.6 (23)	3.6 (23)	7.9 (23)	37.6 (22)	
Hydrometer Reading 3	% passing	31.6 (12.8)	30.8 (12.9)	29.3 (12.9) [30.9 (12.9)]	6.7 (13.3)	47.7 (12.7)	53.7 (12.4)	31.6 (12.7)	7.6 (13.3)	2.2 (13.6)	6.4 (13.5)	35.2 (12.8)	
Hydrometer Reading 4	% passing	27.2 (9.1)	26.2 (9.2)	24.9 (9.3) [24.4 (9.1)]	5.7 (9.6)	42.2 (8.9)	48.4 (8.7)	27.5 (8.8)	6.5 (9.5)	2.2 (9.6)	4.8 (9.6)	32.9 (9)	
Hydrometer Reading 5	% passing	22.8 (6.6)	21.6 (6.7)	20.5 (6.7) [20 (6.6)]	4.8 (6.6)	36.6 (6.5)	42.7 (6.4)	23 (6.5)	5.5 (6.6)	1.5 (7)	4.8 (6.6)	28.3 (6.7)	
Hydrometer Reading 6	% passing	15.8 (3.2)	14.2 (3.2)	13.5 (3.3) [15.6 (3.3)]	2.9 (3.3)	28.3 (3.3)	29.5 (3.1)	16.8 (3.2)	3.4 (3.3)	0.8 (3.4)	1.8 (3.4)	21.3 (3.3)	
Hydrometer Reading 7	% passing	11.4 (1.4)	9.6 (1.4)	9.2 (1.4) [6.9 (1.4)]	2.9 (1.4)	17.2 (1.4)	18.9 (1.4)	10.6 (1.4)	2.3 (1.4)	0.8 (1.4)	1.8 (1.4)	14.3 (1.4)	

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Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name:		K56622 12 - 15	K56623 15 - 20	K56624 20 - 25	K56625 0 - 2	K56626 2 - 6	K56627 6 - 12	K56628 [K56631] 12 - 24	K56629 24 - 36	K56630 36 - 42	K56632 0 - 2	K56633 2 - 6
Sample Depth(in):		11/10/09	11/10/09	11/10/09	11/10/09	11/11/09	11/11/09	11/11/09	11/11/09	11/11/09	11/12/09	11/12/09
Date Collected:		S-IM1-5	S-IM1-5	S-IM1-5	KPT19-K	KPT19-K	KPT19-K	KPT19-K	KPT19-K	KPT19-K	KPT20-B	KPT20-B
PCB Aroclors												
Aroclor-1016	mg/kg	9.9 U	9.1 U	7.0 U	0.052 U	0.053 U	0.12 U	0.055 U [0.057 U]	0.056 U	0.29 U	0.20 U	0.067 U
Aroclor-1221	mg/kg	9.9 U	9.1 U	7.0 U	0.052 U	0.053 U	0.12 U	0.055 U [0.057 U]	0.056 U	0.29 U	0.20 U	0.067 U
Aroclor-1232	mg/kg	9.9 U	9.1 U	7.0 U	0.052 U	0.053 U	0.12 U	0.055 U [0.057 U]	0.056 U	0.29 U	0.20 U	0.067 U
Aroclor-1242	mg/kg	95	39	28	0.18	0.11	0.54	0.24 [0.28]	0.63	2.4	0.82	0.27
Aroclor-1248	mg/kg	9.9 U	16	14	0.052 U	0.053 U	0.12 U	0.055 U [0.057 U]	0.056 U	0.29 U	0.20 U	0.067 U
Aroclor-1254	mg/kg	66	11	22	0.20	0.095	0.41	0.24 [0.33]	0.60	0.89	1.2	0.34
Aroclor-1260	mg/kg	9.9 U	9.1 U	4.8 J	0.052 U	0.053 U	0.12 U	0.055 U [0.057 U]	0.056 U	0.29 U	0.20	0.067 U
Total PCBs	mg/kg	160	66	69	0.38	0.21	0.95	0.48 [0.61]	1.2	3.3	2.2	0.61
Miscellaneous												
Percent Solids	%	48.9	54.9	70.4	91.5	88.6	84	86.5 [86.9]	84.1	81.1	50.2	70.3
TOC												
Total Organic Carbon	mg/kg	54,000	39,400	42,800 J	3,870 J	657	752	1,500 J [2,200 J]	2,490 J	14,600	66,900 J	34,800
Grain Size Analysis												
Gravel	%	0.8	0.4	23.5	21.2	22.9	1.8	1 [4.3]	4.7	5.9	56.7	34.3
Coarse Sand	%	1.1	2.2	18	33.7	29.9	9.2	10.2 [8.9]	8.7	12.1	1.3	5.8
Medium Sand	%	11.1	8.3	10.4	29.8	27.7	51.4	40.7 [39.8]	36.3	41.2	2.8	8
Fine Sand	%	58	78.3	43.2	12.9	16.1	34.6	46.3 [46.7]	48.5	38.9	6.4	44.8
Silt	%	19.7	5.6	2.2	2.6	3.6	3.2	2.2 [1.3]	2.3	2.8	31.7	5.7
Clay	%	9.2	5	2.7	-0.3	-0.2	-0.3	-0.3 [-0.9]	-0.4	-0.9	1.1	1.4
Grain Size Analysis - % passing (particle size, um)												
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	59.4 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	53.9 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	99.5 (9500)	100 (9500)	88.5 (9500)	99.2 (9500)	95.8 (9500)	99.7 (9500)	100 (9500) [99 (9500)]	97.6 (9500)	98.8 (9500)	44.6 (9500)	79.2 (9500)
Sieve, #4	% passing	99.2 (4750)	99.6 (4750)	76.5 (4750)	78.8 (4750)	77.1 (4750)	98.2 (4750)	99 (4750) [95.7 (4750)]	95.3 (4750)	94.1 (4750)	43.3 (4750)	65.7 (4750)
Sieve, #10	% passing	98.1 (2000)	97.4 (2000)	58.5 (2000)	45 (2000)	47.2 (2000)	88.9 (2000)	88.8 (2000) [86.8 (2000)]	86.6 (2000)	82 (2000)	42 (2000)	59.9 (2000)
Sieve, #20	% passing	95.2 (850)	95.3 (850)	54.5 (850)	28.7 (850)	33.5 (850)	70.6 (850)	75.6 (850) [73.6 (850)]	75.3 (850)	68.1 (850)	41.1 (850)	56.5 (850)
Sieve, #40	% passing	87 (425)	89 (425)	48.1 (425)	15.2 (425)	19.5 (425)	37.5 (425)	48.1 (425) [47.1 (425)]	50.3 (425)	40.8 (425)	39.2 (425)	52 (425)
Sieve, #60	% passing	72.1 (250)	68.1 (250)	29 (250)	6 (250)	6.1 (250)	6.9 (250)	11.6 (250) [9.5 (250)]	20.4 (250)	19.5 (250)	36.8 (250)	42.1 (250)
Sieve, #80	% passing	49 (180)	30 (180)	10.2 (180)	3.4 (180)	3.8 (180)	3.4 (180)	2.3 (180) [0.8 (180)]	4.7 (180)	5.4 (180)	35.2 (180)	30 (180)
Sieve, #100	% passing	43.7 (150)	22.2 (150)	8 (150)	3.1 (150)	3.7 (150)	3.3 (150)	2.1 (150) [0.6 (150)]	3.6 (150)	4 (150)	34.5 (150)	22.3 (150)
Sieve, #200	% passing	28.9 (75)	10.7 (75)	4.9 (75)	2.3 (75)	3.4 (75)	3 (75)	1.8 (75) [0.4 (75)]	1.8 (75)	1.9 (75)	32.8 (75)	7.1 (75)
Hydrometer Reading 1	% passing	15.3 (35)	8.9 (35)	4.3 (36)	0.3 (37)	-0.1 (37)	0.3 (37)	0.3 (37) [0.1 (37)]	0.6 (37)	0.6 (37)	3 (37)	3.8 (37)
Hydrometer Reading 2	% passing	14.1 (22)	8.9 (22)	4.3 (23)	0.3 (23)	-0.1 (23)	0.3 (23)	0.3 (23) [-0.4 (24)]	0.1 (24)	0.6 (23)	3 (23)	3.2 (23)
Hydrometer Reading 3	% passing	14.1 (12.9)	7 (13.1)	3.5 (13.3)	0.3 (13.6)	-0.1 (13.5)	0.3 (13.6)	0.3 (13.6) [-0.9 (13.7)]	-0.4 (13.7)	-0.4 (13.7)	1.1 (13.7)	1.9 (13.6)
Hydrometer Reading 4	% passing	11.6 (9.2)	7 (9.2)	2.7 (9.6)	0.3 (9.8)	-0.2 (9.5)	-0.3 (9.5)	-0.3 (9.5) [-0.9 (9.6)]	-0.4 (9.7)	-0.4 (9.7)	1.1 (9.7)	1.9 (9.6)
Hydrometer Reading 5	% passing	9.2 (6.6)	5 (6.7)	2.7 (6.8)	-0.3 (6.6)	-0.2 (6.8)	-0.3 (6.9)	-0.3 (6.9) [-0.9 (7)]	-0.4 (7)	-0.9 (6.7)	1.1 (6.9)	1.4 (6.9)
Hydrometer Reading 6	% passing	6.7 (3.2)	3.2 (3.2)	1.9 (3.3)	-0.3 (3.3)	-0.2 (3.4)	-0.3 (3.4)	-0.3 (3.3) [-0.9 (3.5)]	-0.5 (3.4)	-1 (3.4)	1.1 (3.3)	0.7 (3.3)
Hydrometer Reading 7	% passing	4.3 (1.4)	2.3 (1.4)	1.2 (1.4)	-0.3 (1.4)	-0.2 (1.4)	-0.3 (1.4)	-0.3 (1.4) [-0.9 (1.4)]	-0.4 (1.4)	-0.9 (1.4)	1.1 (1.4)	0.7 (1.4)

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Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56634 6 - 12 11/12/09 KPT20-B	K56635 12 - 23 11/12/09 KPT20-B	K56636 0 - 2 11/13/09 KPT20-C	K56637 2 - 6 11/13/09 KPT20-C	K56638 6 - 12 11/13/09 KPT20-C	K56639 0 - 2 11/16/09 KPT20-A	K56640 2 - 7 11/16/09 KPT20-A	K56641 7 - 12 11/16/09 KPT20-A	K56642 0 - 2 11/17/09 KPT20-8	K56643 2 - 6 11/17/09 KPT20-8	K56644 6 - 8 11/17/09 KPT20-8	
PCB Aroclors													
Aroclor-1016	mg/kg	0.057 U	0.066 U	0.056 U	0.053 U	0.16 U	0.056 U	0.066 U	0.059 U	5.5 U	2.6 U	0.36 U	
Aroclor-1221	mg/kg	0.057 U	0.066 U	0.056 U	0.053 U	0.16 U	0.056 U	0.066 U	0.059 U	5.5 U	2.6 U	0.36 U	
Aroclor-1232	mg/kg	0.053 J	0.066 U	0.056 U	0.053 U	0.16 U	0.056 U	0.066 U	0.059 U	5.5 U	2.6 U	0.36 U	
Aroclor-1242	mg/kg	0.057 U	0.066 U	0.056 U	0.053 U	0.98	0.15	0.24	0.059 U	13	11	2.1	
Aroclor-1248	mg/kg	0.057 U	0.066 U	0.056 U	0.12	0.16 U	0.056 U	0.066 U	0.059 U	5.5 U	2.6 U	0.36 U	
Aroclor-1254	mg/kg	0.057 U	0.066 U	0.031 J	0.23	0.38	0.045 J	0.078	0.13	88	38	1.8	
Aroclor-1260	mg/kg	0.057 U	0.066 U	0.056 U	0.053 U	0.16 U	0.056 U	0.066 U	0.059 U	5.5 U	2.6 U	0.36 U	
Total PCBs	mg/kg	0.053 J	0.066 U	0.031 J	0.35	1.4	0.20	0.32	0.13	100	49	3.9	
Miscellaneous													
Percent Solids	%	84	71.9	86.1	86.9	92.8	88.6	73.4	83.3	42.5	55.9	65.8	
TOC													
Total Organic Carbon	mg/kg	8,510	17,700 J	16,600 J	10,200 J	3,100 J	11,700 J	16,400 J	29,600 J	57,300	47,400	30,900	
Grain Size Analysis													
Gravel	%	12.6	11.2	42.5	23.2	41.1	40.3	25.3	1	65.8	32.8	16.4	
Coarse Sand	%	14.2	8.7	18	22.6	23.6	17.3	15.4	1.1	2.4	7.8	3.2	
Medium Sand	%	20.9	30.9	21.2	32.4	23.7	18.2	23.8	3.5	2.8	15.5	5.4	
Fine Sand	%	50	43.7	17.8	19.4	10.3	22.3	32.5	7.8	4.6	21.7	48	
Silt	%	1.8	3.7	0.8	2.3	0.8	1.5	2	63.7	15.4	14.1	25	
Clay	%	0.6	1.8	-0.4	0.1	0.5	0.5	1	22.9	9	8.1	2	
Grain Size Analysis - % passing (particle size, um)													
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	89.7 (19000)	100 (19000)	100 (19000)	46.3 (19000)	100 (19000)	88.8 (19000)	
Sieve, 3/8 inch	% passing	96.8 (9500)	93.8 (9500)	78.6 (9500)	90.1 (9500)	83.1 (9500)	75.9 (9500)	86.8 (9500)	100 (9500)	37.6 (9500)	82.1 (9500)	87.5 (9500)	
Sieve, #4	% passing	87.4 (4750)	88.8 (4750)	57.5 (4750)	76.8 (4750)	58.9 (4750)	59.7 (4750)	74.7 (4750)	99 (4750)	34.2 (4750)	67.2 (4750)	83.6 (4750)	
Sieve, #10	% passing	73.2 (2000)	80.1 (2000)	39.5 (2000)	54.2 (2000)	35.3 (2000)	42.4 (2000)	59.3 (2000)	98 (2000)	31.8 (2000)	59.4 (2000)	80.4 (2000)	
Sieve, #20	% passing	62.1 (850)	67.5 (850)	29.2 (850)	38.9 (850)	24.1 (850)	33.3 (850)	48 (850)	96.6 (850)	30.6 (850)	53 (850)	78.5 (850)	
Sieve, #40	% passing	52.4 (425)	49.2 (425)	18.3 (425)	21.8 (425)	11.6 (425)	24.2 (425)	35.5 (425)	94.4 (425)	29 (425)	43.9 (425)	75 (425)	
Sieve, #60	% passing	37.4 (250)	27.6 (250)	5.4 (250)	8 (250)	3.2 (250)	10.4 (250)	19.6 (250)	90.8 (250)	27.7 (250)	33.5 (250)	64.6 (250)	
Sieve, #80	% passing	23.5 (180)	13.6 (180)	1.5 (180)	3.8 (180)	1.7 (180)	4.4 (180)	11 (180)	88.4 (180)	27.1 (180)	29.2 (180)	50.1 (180)	
Sieve, #100	% passing	15.6 (150)	9.6 (150)	0.9 (150)	3 (150)	1.6 (150)	3.1 (150)	8.1 (150)	87.6 (150)	26.8 (150)	27.6 (150)	42.4 (150)	
Sieve, #200	% passing	2.4 (75)	5.6 (75)	0.5 (75)	2.3 (75)	1.3 (75)	2 (75)	3.1 (75)	86.7 (75)	24.4 (75)	22.2 (75)	27 (75)	
Hydrometer Reading 1	% passing	1.6 (37)	3.6 (37)	0.5 (37)	0.1 (38)	1.4 (37)	1 (37)	2.5 (37)	81.3 (27)	19.9 (36)	16.2 (35)	7.2 (36)	
Hydrometer Reading 2	% passing	1.6 (23)	3 (23)	0.5 (24)	0.1 (24)	0.6 (24)	1 (23)	2 (23)	69.9 (18)	17.7 (23)	13.9 (22)	7.2 (23)	
Hydrometer Reading 3	% passing	0.6 (13.7)	1.8 (13.6)	0.5 (13.7)	0.1 (13.7)	0.6 (13.6)	1 (13.5)	1.6 (13.5)	48.7 (11.5)	15.6 (13.3)	11.7 (13.1)	5.9 (13.3)	
Hydrometer Reading 4	% passing	0.6 (9.8)	1.8 (9.8)	-0.4 (9.6)	0.1 (9.6)	0.6 (9.5)	0.6 (9.3)	1.5 (9.6)	34.3 (8.7)	13.4 (9.5)	10.5 (9.1)	3.3 (9.5)	
Hydrometer Reading 5	% passing	0.6 (7)	1.8 (6.6)	-0.4 (6.9)	0.1 (6.9)	0.5 (6.9)	0.5 (6.8)	1 (6.6)	22.9 (6.5)	9 (6.6)	8.1 (6.8)	2 (6.8)	
Hydrometer Reading 6	% passing	0.6 (3.4)	0.7 (3.4)	-0.4 (3.4)	-0.4 (3.5)	0.5 (3.3)	0.5 (3.3)	0.5 (3.3)	10.2 (3.3)	6.9 (3.4)	4.7 (3.4)	0.7 (3.3)	
Hydrometer Reading 7	% passing	0.1 (1.4)	0.1 (1.4)	-0.4 (1.4)	-0.4 (1.4)	0.1 (1.4)	0.5 (1.4)	0.1 (1.4)	4.5 (1.4)	2.5 (1.4)	1.3 (1.4)	0.7 (1.4)	

See Notes on Page 14.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #37, March 2010

Table K — Validated PCB Results for Sediment Samples Collected in November 2009 - Hot Spot Assessment — Data Received by ARCADIS in January 2010

Notes:

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit
UJ - The compound was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection
mg/kg - milligram per kilogram.
Samples analyzed by TestAmerica Laboratories, Inc.
Duplicate results in brackets.

Georgia-Pacific LLC
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Supplemental Remedial Investigations/Feasibility Studies
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Table L — Validated PCB Results for Groundwater and Surface Water Samples Collected in the Plainwell TCRA — Data Received in January 2010

Sample Name: Date Collected: Location ID:	Units	TS31009 [TS31010] 12/14/09 SG-5	TS31011 12/18/09 SG-5	TS40051 12/14/09 MW-12	TS40052 12/15/09 MW-14	TS40053 12/15/09 MW-11	TS40054 12/15/09 MW-13	TS40055 12/15/09 MW-15	TS40056 12/16/09 MW-10	TS40057 12/16/09 MW-5	TS40058 12/16/09 MW-4	TS40059 12/16/09 MW-8
PCBs												
Aroclor-1016	ug/L	0.048 U [0.048 U]	0.049 U	0.048 U	0.049 U	0.048 U	0.049 U	0.051 U	0.047 U	0.047 U	0.048 U	0.048 U
Aroclor-1221	ug/L	0.048 U [0.048 U]	0.049 U	0.048 U	0.049 U	0.048 U	0.049 U	0.051 U	0.047 U	0.047 U	0.048 U	0.048 U
Aroclor-1232	ug/L	0.048 U [0.048 U]	0.049 U	0.048 U	0.049 U	0.048 U	0.049 U	0.051 U	0.047 U	0.047 U	0.048 U	0.048 U
Aroclor-1242	ug/L	0.048 U [0.048 U]	0.049 U	0.048 U	0.049 U	0.048 U	0.049 U	0.051 U	0.047 U	0.047 UU	0.048 U	0.048 U
Aroclor-1248	ug/L	0.048 U [0.048 U]	0.049 U	0.048 U	0.049 U	0.048 U	0.049 U	0.051 U	0.047 U	0.047 U	0.048 U	0.048 U
Aroclor-1254	ug/L	0.048 U [0.048 U]	0.049 U	0.048 U	0.049 U	0.048 U	0.049 U	0.051 U	0.047 U	0.047 UU	0.048 U	0.048 U
Aroclor-1260	ug/L	0.048 U [0.048 U]	0.049 U	0.048 U	0.049 U	0.048 U	0.049 U	0.051 U	0.047 U	0.047 U	0.048 U	0.048 U
Total PCB	ug/L	0.048 U [0.048 U]	0.049 U	0.048 U	0.049 U	0.048 U	0.049 U	0.051 U	0.047 U	0.047 U	0.048 U	0.048 U
Inorganics												
Calcium	ug/L	90,100 [87,000]	86,600	225,000	154,000	106,000	108,000	91,300	221,000	197,000	170,000	108,000
Magnesium	ug/L	25,600 [24,800]	24,400	48,900	36,000	25,000	25,700	23,200	26,900	44,400	40,800	27,300
Potassium	ug/L	2,240 B [2,220 B]	2,130 B	6,650	892 B	1,840 B	1,760 B	2,430 B	1,300 B	3,310 B	2,080 B	1,810 B
Sodium	ug/L	40,000 [38,500]	35,000	15,700	41,800	48,700	75,800	62,500	45,900	66,300	82,900	93,200
Miscellaneous												
Alkalinity	mg/L	230 [230]	230	450	240	260	280	280	400	390	320	270
Chloride	mg/L	58 [69]	61	14	60	64	110	63	71	86	130	160
Sulfate	mg/L	29 [34]	36 J	190	460	55	25	42	180	200	230	56
Total Dissolved Solids	mg/L	411 [399]	402	872	691	479	447	421	856	884	883	630
Total Organic Carbon	mg/L	4.5 [4.6]	5.4	31.3	2.6	2.5	2.4	1.4	16.8	6.9	4	1.6
Total Suspended Solids	mg/L	5.5 [5]	5	0.7	17.8	13.6	15.2	8.2	14.5	15.7	16.8	8.9

See Notes on Page 2.

Georgia-Pacific LLC
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Supplemental Remedial Investigations/Feasibility Studies
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Table L — Validated PCB Results for Groundwater and Surface Water Samples Collected in the Plainwell TCRA — Data Received in January 2010

Sample Name: Date Collected: Location ID:	Units	TS40060 [TS40061] 12/17/09 MW-3	TS40062 [TS40063] 12/17/09 MW-7	TS40064 12/17/09 MW-2	TS40065 12/17/09 MW-6	TS40066 12/18/09 MW-1	TS40067 12/18/09 MW-9
PCBs							
Aroclor-1016	ug/L	0.048 U [0.048 U]	0.048 U [0.047 U]	0.048 U	0.048 U	0.048 U	0.051 U
Aroclor-1221	ug/L	0.048 U [0.048 U]	0.048 U [0.047 U]	0.048 U	0.048 U	0.048 U	0.051 U
Aroclor-1232	ug/L	0.048 U [0.048 U]	0.048 U [0.047 U]	0.048 U	0.048 U	0.048 U	0.051 U
Aroclor-1242	ug/L	0.048 U [0.048 U]	0.048 U [0.047 U]	0.048 U	0.048 U	0.048 U	0.051 U
Aroclor-1248	ug/L	0.048 U [0.048 U]	0.048 U [0.047 U]	0.048 U	0.048 U	0.048 U	0.051 U
Aroclor-1254	ug/L	0.048 U [0.048 U]	0.048 U [0.047 U]	0.048 U	0.048 U	0.048 U	0.051 U
Aroclor-1260	ug/L	0.048 U [0.048 U]	0.048 U [0.047 U]	0.048 U	0.048 U	0.048 U	0.051 U
Total PCB	ug/L	0.048 U [0.048 U]	0.048 U [0.047 U]	0.048 U	0.048 U	0.048 U	0.051 U
Inorganics							
Calcium	ug/L	136,000 [134,000]	135,000 [142,000]	153,000	118,000	348,000	83,400
Magnesium	ug/L	31,700 [31,300]	29,600 [31,200]	30,200	24,400	121,000	21,900
Potassium	ug/L	1,930 B [1,980 B]	1,590 B [1,670 B]	1,770 B	1,530 B	5,050	1,830 B
Sodium	ug/L	72,600 [71,700]	72,800 [76,900]	72,200	72,600	48,800	72,500
Miscellaneous							
Alkalinity	mg/L	330 [320]	300 [300]	330	270	320	260
Chloride	mg/L	120 [130]	140 [140]	140	130	51	94
Sulfate	mg/L	81 [89]	96 [97]	120	75	910	38
Total Dissolved Solids	mg/L	678 [686]	697 [691]	708	577	1,870	458
Total Organic Carbon	mg/L	3.6 [3.8]	3.8 [4]	4.9	3.9	9.1	2.2
Total Suspended Solids	mg/L	12.9 [13.9]	14.8 [14.9]	21.5	16.1	34.2	4.3

Notes:

- B - The reported value was obtained from a reading less than the contact required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
- U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- UJ - The compound was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

ug/L - micrograms per liter

Samples analyzed by TestAmerica Laboratories, Inc.

Duplicate results are in brackets.

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Supplemental Remedial Investigations/Feasibility Studies
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Table M — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received by ARCADIS in January 2010

Sample Name:		K56645 0 - 2 12/01/09 CVT-B-1	K56646 2 - 7 12/01/09 CVT-B-1	K56647 7 - 12 12/01/09 CVT-B-1	K56648 12 - 15 12/01/09 CVT-B-1	K56649 15 - 17 12/01/09 CVT-B-1	K56650 17 - 26 12/01/09 CVT-B-1	K56651 26 - 30 12/01/09 CVT-B-1	K56652 0 - 2 12/01/09 CVT-B-2	K56653 2 - 6 12/01/09 CVT-B-2	K56654 2 - 6 12/01/09 CVT-B-2	K56655 6 - 12 12/01/09 CVT-B-2	K56656 [K56657] 12 - 19 12/01/09 CVT-B-2	
PCB Aroclors														
Aroclor-1016	mg/kg	0.39 U	0.80 U	3.0 U	7.5 U	3.4 U	2.5 U	2.7 U	0.47 U	0.64 U	1.8 U	5.2 U	0.11 U [0.11 U]	
Aroclor-1221	mg/kg	0.39 U	0.80 U	3.0 U	7.5 U	3.4 U	2.5 U	2.7 U	0.47 U	0.64 U	1.8 U	5.2 U	0.11 U [0.11 U]	
Aroclor-1232	mg/kg	0.39 U	0.80 U	3.0 U	7.5 U	3.4 U	2.5 U	2.7 U	0.47 U	0.64 U	1.8 U	5.2 U	0.11 U [0.11 U]	
Aroclor-1242	mg/kg	0.39 U	2.7	17	32	31	19	12	2.0	2.8	14	50 J	0.42 [0.48]	
Aroclor-1248	mg/kg	2.7	0.88	3.0 U	7.5	3.4 U	2.5 U	3.5	0.47 U	0.64 U	1.8 U	5.2 U	0.11 U [0.11 U]	
Aroclor-1254	mg/kg	0.39 U	1.8	12	9.5	13	5.8	7.4	0.40 J	0.82	1.6 J	5.2 UJ	0.11 U [0.11 U]	
Aroclor-1260	mg/kg	0.39 U	0.80 U	3.3	6.6 J	3.4 U	2.5 U	2.7 U	0.47 U	0.64 U	1.8 U	5.2 U	0.11 U [0.11 U]	
Total PCBs	mg/kg	2.7	5.4	32	56	44	25	23	2.4	3.6	16	50 J	0.42 [0.48]	
Miscellaneous														
Percent Solids	%	27.3	25.9	34	31.7	30.3	41.3	36.6	22.4	23	26.5	26.6	88.4 [86]	
TOC														
Total Organic Carbon	mg/kg	189,000 J	184,000	200,000	250,000	186,000	239,000 J	94,000	220,000	159,000	151,000	171,000	1,840 J [11,000 J]	
Grain Size Analysis														
Gravel	%	12.4	3.3	1.7	2	1.5	0	1.8	8.6	3.8	4.5	2.4	68.1	
Coarse Sand	%	3.8	3.3	0.9	3.8	1.4	0	0	2.8	2.6	2.7	1.6	5.7	
Medium Sand	%	5.6	11.4	18.3	13.2	3.8	15.7	3.9	3	5.2	5.8	2	18.1	
Fine Sand	%	42	49.3	52.1	48.2	34	50.6	37.1	32.2	40.4	45.2	18	7.5	
Silt	%	35.2	29.1	23.4	25.3	40.3	21.2	37.7	47	43.7	37.9	54.1	0.4	
Clay	%	0.9	3.5	3.6	7.5	19	12.6	19.5	6.4	4.2	4	22	0.2	
Grain Size Analysis - % passing (particle size, um)														
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	
Sieve, 3/8 inch	% passing	92.2 (9500)	98.9 (9500)	99.6 (9500)	99.7 (9500)	99.1 (9500)	100 (9500)	100 (9500)	93.3 (9500)	99.9 (9500)	99.3 (9500)	97.7 (9500)	99.3 (9500)	
Sieve, #4	% passing	87.6 (4750)	96.7 (4750)	98.3 (4750)	98 (4750)	98.5 (4750)	100 (4750)	98.2 (4750)	91.4 (4750)	96.2 (4750)	95.5 (4750)	97.6 (4750)	31.9 (4750)	
Sieve, #10	% passing	83.7 (2000)	93.4 (2000)	97.4 (2000)	94.2 (2000)	97.1 (2000)	100 (2000)	98.2 (2000)	88.5 (2000)	93.5 (2000)	92.8 (2000)	96.1 (2000)	26.3 (2000)	
Sieve, #20	% passing	82.1 (850)	88.8 (850)	91.7 (850)	91.3 (850)	96.1 (850)	97.2 (850)	97.2 (850)	87.6 (850)	91.3 (850)	90.2 (850)	95.2 (850)	14.9 (850)	
Sieve, #40	% passing	78.1 (425)	82 (425)	79 (425)	81 (425)	93.3 (425)	84.3 (425)	94.3 (425)	85.6 (425)	88.3 (425)	87.1 (425)	94.1 (425)	8.2 (425)	
Sieve, #60	% passing	73.1 (250)	74.5 (250)	66.8 (250)	71.6 (250)	86.5 (250)	59.2 (250)	85.9 (250)	80.3 (250)	80 (250)	77.8 (250)	91.5 (250)	4.5 (250)	
Sieve, #80	% passing	65.8 (180)	65 (180)	56.9 (180)	65.1 (180)	79.1 (180)	47.1 (180)	77.7 (180)	74.7 (180)	71.4 (180)	67.1 (180)	88.2 (180)	2.5 (180)	
Sieve, #100	% passing	59.2 (150)	55.8 (150)	48.7 (150)	60 (150)	75.5 (150)	42.9 (150)	73.2 (150)	71.2 (150)	66.3 (150)	61 (150)	86.2 (150)	1.8 (150)	
Sieve, #200	% passing	36.1 (75)	32.6 (75)	26.9 (75)	32.8 (75)	59.3 (75)	33.7 (75)	57.2 (75)	53.3 (75)	47.9 (75)	41.8 (75)	76.1 (75)	0.7 (75)	
Hydrometer Reading 1	% passing	11.6 (37)	10.7 (36)	11.8 (36)	17.9 (37)	34.3 (36)	20.2 (35)	36.9 (33)	28.2 (36)	22.2 (35)	29.8 (35)	58.4 (35)	0.7 (37)	
Hydrometer Reading 2	% passing	8.8 (23)	9.2 (23)	10.1 (23)	14.4 (23)	31.2 (23)	18.9 (22)	33.7 (21)	22.7 (23)	18.3 (23)	17 (23)	47.6 (22)	0.7 (23)	
Hydrometer Reading 3	% passing	6 (13.6)	6.2 (13.4)	6.8 (13.4)	14.4 (13.4)	25.6 (13.1)	15.2 (12.9)	25.8 (12.6)	17.3 (13.2)	14.3 (13.2)	11.6 (13.2)	36.9 (13)	0.5 (13.5)	
Hydrometer Reading 4	% passing	6 (9.6)	4.7 (9.5)	6.8 (9.7)	11 (9.7)	22.5 (9.2)	14 (9)	22.7 (8.9)	11.8 (9.1)	8.5 (9.4)	7.9 (9.4)	29.8 (9.3)	0.3 (9.4)	
Hydrometer Reading 5	% passing	0.9 (6.9)	3.5 (6.9)	3.6 (6.9)	7.5 (6.6)	19 (6.7)	12.6 (6.6)	19.5 (6.5)	6.4 (6.7)	4.2 (6.6)	4 (7)	22 (6.5)	0.2 (7)	
Hydrometer Reading 6	% passing	0.5 (3.3)	1.7 (3.3)	1.9 (3.3)	4 (3.3)	12.8 (3.4)	8.9 (3.4)	12.9 (3.1)	3.2 (3.3)	2.3 (3.3)	4 (3.3)	14.9 (3.4)	0 (3.5)	
Hydrometer Reading 7	% passing	-2.3 (1.4)	0.2 (1.4)	0.3 (1.4)	0.6 (1.4)	6.7 (1.4)	5.1 (1.4)	8.2 (1.4)	0.5 (1.4)	0.3 (1.4)	7.7 (1.4)	0 (1.4)		

See Notes on Page 6.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table M — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received by ARCADIS in January 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56658 0 - 2 12/01/09 CVT-C-2	K56659 2 - 6 12/01/09 CVT-C-2	K56660 6 - 12 12/01/09 CVT-C-2	K56661 12 - 15 12/01/09 CVT-C-2	K56662 15 - 18 12/01/09 CVT-C-2	K56663 0 - 2 12/01/09 CVT-D-1	K56664 2 - 6 12/01/09 CVT-D-1	K56665 6 - 12 12/01/09 CVT-D-1	K56666 6 - 12 12/01/09 CVT-D-1	K56667 12 - 19 12/01/09 CVT-D-1	K56668 19 - 27 12/01/09 CVT-D-1	K56669 27 - 30 12/01/09 CVT-D-2	
PCB Aroclors														
Aroclor-1016	mg/kg	0.36 U	0.27 U	0.36 U	1.6 U	4.7 U	0.51 U	0.25 U	0.38 U	0.67 U	7.7 U	0.57 U	0.37 U	
Aroclor-1221	mg/kg	0.36 U	0.27 U	0.36 U	1.6 U	4.7 U	0.51 U	0.25 U	0.38 U	0.67 U	7.7 U	0.57 U	0.37 U	
Aroclor-1232	mg/kg	0.36 U	0.27 U	0.36 U	1.6 U	4.7 U	0.51 U	0.25 U	0.38 U	0.67 U	7.7 U	0.57 U	0.37 U	
Aroclor-1242	mg/kg	0.86	1.1	2.3	13	54	1.4	1.4	1.7	3.1	85	3.1	0.76	
Aroclor-1248	mg/kg	0.36	0.27 U	0.36 U	1.6 U	4.7 U	0.78 J	0.25 U	1.0	0.88	7.7 U	0.57 U	0.31 J	
Aroclor-1254	mg/kg	0.35 J	0.20 J	0.36	1.3 J	4.6 J	0.48 J	0.44	0.86	1.4	14	0.57 U	0.42	
Aroclor-1260	mg/kg	0.36 U	0.27 U	0.36 U	1.6 U	4.7 U	0.60	0.66	0.38 U	0.67 U	7.7 U	0.57 U	0.37 U	
Total PCBs	mg/kg	1.6	1.3	2.7	14	59	3.3 J	2.5	3.6	5.4	99	3.1	1.5	
Miscellaneous														
Percent Solids	%	29	34.9	40.2	31.1	32.2	29.7	40.4	38.6	38.3	32.2	89.4	26.9	
TOC														
Total Organic Carbon	mg/kg	218,000	237,000	184,000 J	150,000	220,000 J	142,000	128,000	95,300	92,200	65,100	13,300 J	156,000	
Grain Size Analysis														
Gravel	%	3.3	0.6	0.3	5.1	6.7	0.3	0.9	1.7	0	2.1	26.8	0.3	
Coarse Sand	%	1.5	0.4	0.4	3.5	3.8	0.6	1.3	0.6	0	1.8	26.4	0.6	
Medium Sand	%	4	1.6	2.2	22.1	10.3	3.3	4.7	6.8	6.9	4.6	34.8	4.7	
Fine Sand	%	24.5	21.3	31.8	35.5	26	37	43.5	51.2	38.7	14.1	10.5	32.3	
Silt	%	55.8	61.1	51.1	27.8	44	48.4	39	33.7	42.3	42.3	2	53.1	
Clay	%	11	15	14.3	6.1	9.3	10.4	10.6	6	12.1	35.1	-0.5	9	
Grain Size Analysis - % passing (particle size, um)														
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	99.9 (19000)	100 (19000)	100 (19000)	100 (19000)	97.1 (19000)	100 (19000)	99.9 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	
Sieve, 3/8 inch	% passing	98.9 (9500)	99.5 (9500)	99.9 (9500)	95.8 (9500)	95.7 (9500)	99.8 (9500)	99.6 (9500)	98.4 (9500)	100 (9500)	100 (9500)	94.3 (9500)	100 (9500)	
Sieve, #4	% passing	96.7 (4750)	99.4 (4750)	99.7 (4750)	94.9 (4750)	93.3 (4750)	99.7 (4750)	99.1 (4750)	98.3 (4750)	100 (4750)	100 (4750)	97.9 (4750)	73.2 (4750)	
Sieve, #10	% passing	95.3 (2000)	99.1 (2000)	99.3 (2000)	91.4 (2000)	89.6 (2000)	99.1 (2000)	97.8 (2000)	97.7 (2000)	100 (2000)	100 (2000)	96.1 (2000)	46.8 (2000)	
Sieve, #20	% passing	94 (850)	98.5 (850)	98.7 (850)	83.3 (850)	84.8 (850)	98 (850)	96.1 (850)	94.7 (850)	95 (850)	94.1 (850)	25.9 (850)	97.1 (850)	
Sieve, #40	% passing	91.3 (425)	97.5 (425)	97.2 (425)	69.3 (425)	79.3 (425)	95.8 (425)	93.1 (425)	90.9 (425)	93.1 (425)	91.6 (425)	12 (425)	94.4 (425)	
Sieve, #60	% passing	87.1 (250)	94.5 (250)	93 (250)	59 (250)	72.5 (250)	92.4 (250)	88.7 (250)	85.7 (250)	90 (250)	87.8 (250)	4.2 (250)	90.3 (250)	
Sieve, #80	% passing	83.1 (180)	91.2 (180)	88.1 (180)	52.9 (180)	67 (180)	87.6 (180)	81.4 (180)	78.4 (180)	85.3 (180)	84.6 (180)	2.5 (180)	85 (180)	
Sieve, #100	% passing	80.4 (150)	89.1 (150)	84.6 (150)	49.8 (150)	64.4 (150)	83.6 (150)	75.4 (150)	71.3 (150)	81.2 (150)	83.1 (150)	2.1 (150)	80.7 (150)	
Sieve, #200	% passing	66.8 (75)	76.1 (75)	65.4 (75)	33.9 (75)	53.3 (75)	58.8 (75)	49.6 (75)	39.7 (75)	54.4 (75)	77.4 (75)	1.5 (75)	62.1 (75)	
Hydrometer Reading 1	% passing	43.3 (33)	55.6 (32)	52.5 (33)	28.2 (35)	26.1 (35)	33 (34)	29.4 (35)	18.5 (35)	39.1 (35)	66.6 (32)	1.4 (37)	42.4 (34)	
Hydrometer Reading 2	% passing	34.9 (21)	41.5 (21)	42.9 (21)	20.9 (23)	21.1 (22)	27.4 (22)	27.1 (22)	14.4 (23)	31 (22)	62.4 (20)	1.4 (23)	34.7 (22)	
Hydrometer Reading 3	% passing	22.8 (12.8)	27.3 (12.7)	29.6 (12.7)	16 (13.2)	16 (13)	19.8 (13)	20 (13.1)	10.2 (13.2)	22.9 (13.1)	49.6 (12.2)	1.4 (13.5)	21.9 (13.1)	
Hydrometer Reading 4	% passing	16 (9.2)	20.3 (9.1)	20 (9.3)	11 (9.6)	12.6 (9.1)	12.3 (9.2)	12.9 (9.2)	8.8 (9.1)	17.5 (9.3)	41.1 (8.8)	0.5 (9.6)	11.6 (9.3)	
Hydrometer Reading 5	% passing	11 (6.7)	15 (6.7)	14.3 (6.7)	6.1 (6.6)	9.3 (6.6)	10.4 (6.7)	10.6 (6.7)	6 (6.7)	12.1 (6.5)	35.1 (6.5)	-0.5 (6.6)	9 (6.9)	
Hydrometer Reading 6	% passing	5.9 (3.2)	9.7 (3.2)	8.6 (3.3)	6.1 (3.3)	7.6 (3.3)	6.6 (3.4)	5.9 (3.2)	3.5 (3.2)	9.4 (3.3)	28.7 (3.2)	-0.5 (3.4)	3.9 (3.4)	
Hydrometer Reading 7	% passing	3.9 (1.4)	6.2 (1.4)	6.7 (1.4)	0.8 (1.4)	4.2 (1.4)	2.8 (1.4)	3.1 (1.4)	1.9 (1.4)	6.3 (1.4)	22.3 (1.3)	-0.5 (1.4)	0.9 (1.4)	

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Georgia-Pacific LLC
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Table M — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received by ARCADIS in January 2010

Sample Name:	K56670	K56671	K56672	K56673	K56674	K56675 [K56678]	K56676	K56677	K56679	K56680	K56681	K56682	
Sample Depth(in):	2 - 6	6 - 12	12 - 19	0 - 2	2 - 6	6 - 12	12 - 24	24 - 27	0 - 2	2 - 6	6 - 12	12 - 17	
Date Collected:	12/01/09	12/01/09	12/01/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	
Location ID:	Units	CVT-D-2	CVT-D-2	CVT-D-2	CVT-F-1	CVT-F-1	CVT-F-1	CVT-F-1	CVT-F-2	CVT-F-2	CVT-F-2	CVT-F-2	
PCB Aroclors													
Aroclor-1016	mg/kg	0.43 U	0.67 U	1.1 U	0.41 U	2.8 U	3.6 U [5.3 U]	5.0 U	9.5 U	0.40 U	0.46 U	0.29 U	
Aroclor-1221	mg/kg	0.43 U	0.67 U	1.1 U	0.41 U	2.8 U	3.6 U [5.3 U]	5.0 U	9.5 U	0.40 U	0.46 U	0.29 U	
Aroclor-1232	mg/kg	0.43 U	0.67 U	1.1 U	0.41 U	2.8 U	3.6 U [5.3 U]	5.0 U	9.5 U	0.40 U	0.46 U	0.29 U	
Aroclor-1242	mg/kg	1.2	4.9	11	2.7	16	40 [55]	55	79	0.93	1.5	1.2	
Aroclor-1248	mg/kg	0.83	0.67 U	1.1 U	0.41 U	2.8 U	3.6 U [5.3 U]	5.0 U	9.5 U	0.68	0.46	0.51	
Aroclor-1254	mg/kg	0.50	1.0	0.74 J	0.68	2.5 J	3.6 U [5.3 U]	6.3 J	9.5 U	0.59	0.50	0.29 U	
Aroclor-1260	mg/kg	0.30 J	0.67 U	1.1 U	0.41 U	2.8 U	3.6 U [5.3 U]	5.0 U	9.5 U	0.40 U	0.46 U	0.29 U	
Total PCBs	mg/kg	2.8	5.9	12	3.4	19	40 [55]	61	79	2.2	2.5	1.7	
Miscellaneous													
Percent Solids	%	33.9	38.9	43.7	36.2	34	42.8 [44.2]	48.4	54.4	37.3	52	85	
TOC													
Total Organic Carbon	mg/kg	120,000	128,000	103,000	93,400	68,200 J	110,000 [114,000]	73,900 J	36,100 J	83,900	32,700 J	8,020 J	
Grain Size Analysis													
Gravel	%	0	0	2.5	0	0.5	0	4.8	17.6	3.8	4.9	1.2	
Coarse Sand	%	0	1.8	3.2	1.2	2.5	0	4.3	9.1	2.5	6.3	6.7	
Medium Sand	%	5.3	6.3	10.9	9.5	10	14.2	21.4	16.1	20.3	73.3	81.5	
Fine Sand	%	44.3	47	34.9	70.7	62.7	35.3	26.7	37.2	33.4	11.4	8.9	
Silt	%	53.1	47	49.9	22.8	24	30.6	25.6	12.9	39.7	4.1	1.6	
Clay	%	-2.8	-2.1	-1.3	-4.2	0.3	19.8	17.1	7	0.3	0.1	0.1	
Grain Size Analysis - % passing (particle size, um)													
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	
Sieve, 3/8 inch	% passing	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	97.7 (9500)	98.1 (9500)	100 (9500)	97.9 (9500)	99.7 (9500)	
Sieve, #4	% passing	100 (4750)	100 (4750)	97.5 (4750)	100 (4750)	99.5 (4750)	100 (4750)	95.2 (4750)	82.4 (4750)	96.2 (4750)	95.1 (4750)	98.8 (4750)	99.7 (4750)
Sieve, #10	% passing	100 (2000)	98.2 (2000)	94.3 (2000)	98.8 (2000)	97.1 (2000)	100 (2000)	90.8 (2000)	73.3 (2000)	93.6 (2000)	88.9 (2000)	92 (2000)	93.7 (2000)
Sieve, #20	% passing	98 (850)	95.5 (850)	88 (850)	96 (850)	93.6 (850)	92.4 (850)	78.2 (850)	64.9 (850)	80.6 (850)	38.9 (850)	41.3 (850)	36.7 (850)
Sieve, #40	% passing	94.7 (425)	91.9 (425)	83.4 (425)	89.3 (425)	87.1 (425)	85.8 (425)	69.5 (425)	57.1 (425)	73.4 (425)	15.6 (425)	10.5 (425)	7.9 (425)
Sieve, #60	% passing	87.4 (250)	84.3 (250)	77.4 (250)	78.3 (250)	75.2 (250)	75.6 (250)	59.5 (250)	45.3 (250)	68 (250)	11.3 (250)	3 (250)	2.9 (250)
Sieve, #80	% passing	79.2 (180)	76 (180)	71.6 (180)	65.5 (180)	62.9 (180)	66.5 (180)	53.3 (180)	36.8 (180)	61.2 (180)	9.3 (180)	2.3 (180)	2.3 (180)
Sieve, #100	% passing	73.7 (150)	69.6 (150)	67.5 (150)	53.4 (150)	52.8 (150)	62.4 (150)	50.7 (150)	32.6 (150)	55.9 (150)	8 (150)	2.2 (150)	2.2 (150)
Sieve, #200	% passing	50.4 (75)	44.9 (75)	48.6 (75)	18.6 (75)	24.3 (75)	50.4 (75)	42.7 (75)	19.9 (75)	40 (75)	4.2 (75)	1.7 (75)	1.7 (75)
Hydrometer Reading 1	% passing	23.7 (36)	18.5 (36)	28.5 (34)	2.7 (37)	6.8 (37)	31.9 (35)	27.2 (35)	16.8 (37)	7.9 (37)	3.3 (37)	0.9 (37)	0.9 (37)
Hydrometer Reading 2	% passing	13.8 (23)	10.7 (23)	14.4 (23)	2.7 (24)	6.8 (23)	29.5 (22)	25.5 (22)	13.5 (23)	7.9 (23)	3.3 (23)	0.9 (23)	0.9 (23)
Hydrometer Reading 3	% passing	0.6 (13.7)	3 (13.6)	0.3 (13.7)	-1.9 (13.7)	3.6 (13.6)	24.7 (13.1)	23.8 (12.8)	10.3 (13.5)	6 (13.5)	0.9 (13.6)	0.9 (13.6)	0.5 (13.6)
Hydrometer Reading 4	% passing	-2.8 (9.7)	0.4 (9.7)	0.3 (9.8)	-4.2 (9.9)	3.6 (9.4)	22.2 (9.1)	20.4 (9)	7 (9.3)	2.2 (9.6)	0.1 (9.7)	0.1 (9.7)	0.1 (9.5)
Hydrometer Reading 5	% passing	-2.8 (6.9)	-2.1 (7)	-1.3 (7)	-4.2 (6.7)	0.3 (6.8)	19.8 (6.7)	17.1 (6.6)	7 (6.8)	0.3 (6.7)	0.1 (7)	0.1 (6.7)	0.1 (7)
Hydrometer Reading 6	% passing	-6.1 (3.3)	-4.7 (3.3)	-2.9 (3.4)	-4.2 (3.4)	0.3 (3.4)	15 (3.4)	12 (3.2)	0.5 (3.3)	-1.6 (3.3)	-0.7 (3.4)	0 (3.4)	0 (3.5)
Hydrometer Reading 7	% passing	-6.6 (1.4)	-5.2 (1.4)	-3.1 (1.4)	-4.6 (1.4)	-3.3 (1.4)	9.7 (1.4)	6.7 (1.4)	0 (1.4)	-1.9 (1.4)	-0.8 (1.4)	0 (1.4)	0 (1.4)

See Notes on Page 6.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table M — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received by ARCADIS in January 2010

Sample Name:	K56683	K56684	K56685	K56686	K56687 [K56692]	K56688	K56689	K56690	K56691	K56693	K56694	K56695
Sample Depth(in):	17 - 23	23 - 28	28 - 31	0 - 2	2 - 6	6 - 9	9 - 12	12 - 24	24 - 28	0 - 2	2 - 6	6 - 12
Date Collected:	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09	12/02/09
Location ID:	Units	CVT-F-2	CVT-F-2	CVT-F-2	CVT-G-2	CVT-G-2	CVT-G-2	CVT-G-2	CVT-G-2	CVT-H-1	CVT-H-1	CVT-H-1
PCB Aroclors												
Aroclor-1016	mg/kg	12 U	5.2 U	0.69 U	0.70 U	1.7 U [1.6 U]	3.8 U	1.3 UJ	3.4 U	0.68 U	0.32 U	0.61 U
Aroclor-1221	mg/kg	12 U	5.2 U	0.69 U	0.70 U	1.7 U [1.6 U]	3.8 U	1.3 UJ	3.4 U	0.68 U	0.32 U	0.61 U
Aroclor-1232	mg/kg	12 U	5.2 U	0.69 U	0.70 U	1.7 U [1.6 U]	3.8 U	1.3 UJ	3.4 U	0.68 U	0.32 U	0.61 U
Aroclor-1242	mg/kg	100	56	6.2	5.2	15 [13]	23	15 J	30 J	4.5	1.0	4.7
Aroclor-1248	mg/kg	12 U	5.2 U	0.69 U	0.70 U	1.7 U [1.6 U]	3.8 U	1.3 UJ	3.4 U	0.68 U	0.48	1.6
Aroclor-1254	mg/kg	9.6 J	9.8	1.0	1.2	3.1 [2.8]	5.4	1.3 UJ	3.4 U	0.68 U	1.3	1.3
Aroclor-1260	mg/kg	12 U	5.2 U	0.69 U	0.70 U	1.7 U [1.6 U]	3.8 U	1.3 UJ	3.4 U	0.68 U	0.32 U	1.1
Total PCBs	mg/kg	110	66	7.2	6.4	18 [16]	28	15 J	30 J	4.5	2.8	8.7
Miscellaneous												
Percent Solids	%	43.1	48.6	73.8	37.6	29.9 [32.9]	28.1	40.2	44.5	69.4	28.8	42
TOC												
Total Organic Carbon	mg/kg	126,000	110,000	61,400	116,000	79,800 [150,000]	110,000	110,000	73,100 J	44,500 J	168,000	111,000
Grain Size Analysis												
Gravel	%	0	0.4	39.6	4.5	5.1	0	0	0	67.8	2.5	0
Coarse Sand	%	0	0.7	10.7	1.8	1.1	1.7	2.7	2.2	2.7	1.6	4.6
Medium Sand	%	2.2	13.2	9.9	7	4.3	9.4	30.1	19.1	5.4	10.5	10.9
Fine Sand	%	6.7	19.7	27.8	63.4	45.2	28.2	40.8	37.8	14	62.6	69.5
Silt	%	48.3	41.6	4.3	15.4	33.5	47.8	19.7	28	8.7	16.3	11.7
Clay	%	42.8	24.4	7.7	7.9	10.7	12.9	6.8	13	1.5	6.4	3.4
Grain Size Analysis - % passing (particle size, um)												
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	80 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	100 (9500)	100 (9500)	74.7 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	41.2 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing	100 (4750)	99.6 (4750)	60.4 (4750)	95.5 (4750)	94.9 (4750)	100 (4750)	100 (4750)	100 (4750)	32.2 (4750)	97.5 (4750)	100 (4750)
Sieve, #10	% passing	100 (2000)	98.9 (2000)	49.6 (2000)	93.7 (2000)	93.8 (2000)	98.3 (2000)	97.3 (2000)	97.8 (2000)	29.6 (2000)	95.9 (2000)	95.4 (2000)
Sieve, #20	% passing	99.1 (850)	92 (850)	44.7 (850)	90.8 (850)	92.2 (850)	94.9 (850)	82 (850)	88.5 (850)	28.1 (850)	92.1 (850)	91.8 (850)
Sieve, #40	% passing	97.8 (425)	85.8 (425)	39.8 (425)	86.7 (425)	89.5 (425)	88.9 (425)	67.3 (425)	78.8 (425)	24.1 (425)	85.4 (425)	84.6 (425)
Sieve, #60	% passing	96.7 (250)	81.3 (250)	32.6 (250)	79.8 (250)	84.4 (250)	83.9 (250)	58.2 (250)	67.6 (250)	20.4 (250)	77.5 (250)	72.8 (250)
Sieve, #80	% passing	94.7 (180)	75.6 (180)	24.7 (180)	62.5 (180)	73.4 (180)	76.3 (180)	46.1 (180)	54.7 (180)	15.7 (180)	59.1 (180)	56.1 (180)
Sieve, #100	% passing	94 (150)	74.4 (150)	22.3 (150)	54.7 (150)	68.2 (150)	74.2 (150)	41.9 (150)	51.2 (150)	14.5 (150)	51.1 (150)	42 (150)
Sieve, #200	% passing	91.2 (75)	66 (75)	12 (75)	23.3 (75)	44.3 (75)	60.7 (75)	26.5 (75)	41 (75)	10.2 (75)	22.8 (75)	15.1 (75)
Hydrometer Reading 1	% passing	67.8 (32)	46.3 (34)	11.8 (35)	16.9 (36)	28.9 (34)	52.6 (33)	19.2 (35)	34.8 (33)	2.7 (37)	14.1 (36)	8.7 (36)
Hydrometer Reading 2	% passing	63.3 (20)	41.9 (22)	10.8 (22)	16.9 (23)	19 (22)	43.3 (22)	15.5 (22)	29.4 (21)	2.1 (23)	14.1 (23)	5.5 (23)
Hydrometer Reading 3	% passing	56.6 (12)	33.2 (12.7)	8.7 (13.1)	12.4 (13.3)	17.4 (13)	19.9 (13.1)	10.6 (13.1)	19.8 (12.7)	1.5 (13.4)	11.6 (13.3)	4.4 (13.5)
Hydrometer Reading 4	% passing	49.9 (8.6)	28.8 (9.1)	7.7 (9.1)	12.4 (9.2)	12.4 (9.1)	17.5 (9)	8.1 (9.3)	15.7 (9.1)	1.5 (9.5)	9 (9.3)	3.4 (9.6)
Hydrometer Reading 5	% passing	42.8 (6.3)	24.4 (6.6)	7.7 (6.6)	7.9 (6.8)	10.7 (6.7)	12.9 (6.6)	6.8 (6.5)	13 (6.7)	1.5 (6.6)	6.4 (6.9)	3.3 (6.9)
Hydrometer Reading 6	% passing	33.9 (3.1)	20 (3.2)	5.8 (3.3)	6 (3.4)	9.1 (3.2)	12.9 (3.2)	7 (3.2)	10.5 (3.2)	0.9 (3.4)	6.4 (3.4)	2.3 (3.3)
Hydrometer Reading 7	% passing	22.7 (1.3)	17.9 (1.3)	3.6 (1.4)	3.4 (1.4)	5.8 (1.4)	8.2 (1.4)	4.3 (1.4)	7.7 (1.4)	1 (1.4)	4.3 (1.4)	1.1 (1.4)

See Notes on Page 6.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #37, March 2010

Table M — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received by ARCADIS in January 2010

Sample Name:		K56696 12 - 15 12/02/09 CVT-H-1	K56697 15 - 19 12/02/09 CVT-H-1	K56698 19 - 26 12/02/09 CVT-H-1	K56699 0 - 2 12/02/09 CVT-H-2	K56700 2 - 6 12/02/09 CVT-H-2	K56701 6 - 12 12/02/09 CVT-H-2	K56702 12 - 18 12/02/09 CVT-H-2	K56704 29 - 33 12/02/09 CVT-H-2	K56705 0 - 2 12/02/09 CVT-08-01
PCB Aroclors										
Aroclor-1016	mg/kg	4.0 U	2.8 U	5.9 U	1.1 U	3.1 U	3.5 U	0.80 U	0.064 U	0.14 U
Aroclor-1221	mg/kg	4.0 U	2.8 U	5.9 U	1.1 U	3.1 U	3.5 U	0.80 U	0.064 U	0.14 U
Aroclor-1232	mg/kg	4.0 U	2.8 U	5.9 U	1.1 U	3.1 U	3.5 U	0.80 U	0.064 U	0.14 U
Aroclor-1242	mg/kg	42	33	67	10	36	41	7.3	0.064 U	0.55
Aroclor-1248	mg/kg	4.0 U	2.8 U	5.9 U	1.1 U	3.1 U	3.5 U	0.80 U	0.064 U	0.27
Aroclor-1254	mg/kg	2.8 J	5.2	5.9 U	1.1 J	4.4	15	2.8	0.064 U	0.19
Aroclor-1260	mg/kg	4.0 U	5.7	5.9 U	1.1 U	3.1 U	3.5 U	0.80 U	0.064 U	0.14 U
Total PCBs	mg/kg	45	44	67	11	40	56	10	0.064 U	1.0
Miscellaneous										
Percent Solids	%	36.9	53.2	41.8	47	34	41.6	57.2	74.8	69.8
TOC										
Total Organic Carbon	mg/kg	119,000	96,800	167,000	81,100	138,000 J	121,000 J	80,700 J	12,200 J	6,340
Grain Size Analysis										
Gravel	%	6.9	9.2	7.2	0	0	0	2.8	63.3	0.8
Coarse Sand	%	4.2	20.2	1.7	3.5	3	1.6	0.8	3	1.2
Medium Sand	%	13.3	46.9	4.4	8.2	5.3	7.3	11.6	13.9	8.9
Fine Sand	%	49.6	13.4	26.5	68.8	39.9	67.6	71.5	14.7	79.8
Silt	%	16.6	4.2	27.5	13.4	38.3	16.1	10.5	4.1	8.1
Clay	%	9.4	6.1	32.7	6.2	13.4	7.4	2.7	1	1.2
Grain Size Analysis - % passing (particle size, um)										
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	52.6 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	100 (9500)	100 (9500)	95.1 (9500)	100 (9500)	100 (9500)	100 (9500)	99 (9500)	38.8 (9500)	100 (9500)
Sieve, #4	% passing	93.1 (4750)	90.8 (4750)	92.8 (4750)	100 (4750)	100 (4750)	100 (4750)	97.2 (4750)	36.7 (4750)	99.2 (4750)
Sieve, #10	% passing	88.9 (2000)	70.6 (2000)	91.1 (2000)	96.5 (2000)	97 (2000)	98.4 (2000)	96.4 (2000)	33.7 (2000)	97.9 (2000)
Sieve, #20	% passing	82.8 (850)	45 (850)	89 (850)	93.8 (850)	94.9 (850)	96.1 (850)	94.8 (850)	26.9 (850)	95.1 (850)
Sieve, #40	% passing	75.6 (425)	23.7 (425)	86.7 (425)	88.4 (425)	91.6 (425)	91.1 (425)	84.7 (425)	19.8 (425)	89.1 (425)
Sieve, #60	% passing	59.8 (250)	16.1 (250)	81.5 (250)	76.2 (250)	84.1 (250)	76.1 (250)	62.1 (250)	11.7 (250)	72.7 (250)
Sieve, #80	% passing	47.4 (180)	13.5 (180)	75.1 (180)	53.3 (180)	73.2 (180)	59.8 (180)	43.4 (180)	7.9 (180)	44 (180)
Sieve, #100	% passing	42 (150)	12.7 (150)	71.9 (150)	38.6 (150)	67 (150)	49.1 (150)	33.1 (150)	7 (150)	28 (150)
Sieve, #200	% passing	26 (75)	10.3 (75)	60.1 (75)	19.5 (75)	51.8 (75)	23.5 (75)	13.2 (75)	5.1 (75)	9.3 (75)
Hydrometer Reading 1	% passing	16.7 (36)	10 (37)	49.9 (34)	12.2 (36)	39.8 (33)	15.6 (35)	7.8 (36)	4.4 (37)	3.3 (37)
Hydrometer Reading 2	% passing	14.9 (23)	10 (23)	45.6 (22)	11 (23)	31 (22)	13.5 (22)	6.1 (23)	3.5 (23)	3.3 (23)
Hydrometer Reading 3	% passing	13 (13.3)	6.1 (13.6)	41.3 (12.6)	8.6 (13.3)	20.8 (12.9)	10.5 (13.1)	4.4 (13.4)	2.7 (13.6)	3.3 (13.6)
Hydrometer Reading 4	% passing	11.2 (9.6)	6.1 (9.8)	37 (8.8)	6.2 (9.3)	16.4 (9.1)	9.4 (9)	4.4 (9.5)	2.7 (9.6)	1.2 (9.7)
Hydrometer Reading 5	% passing	9.4 (6.8)	6.1 (6.6)	32.7 (6.4)	6.2 (6.8)	13.4 (6.7)	7.4 (6.7)	2.7 (6.6)	1 (7)	1.2 (6.7)
Hydrometer Reading 6	% passing	5.8 (3.3)	2.3 (3.4)	26.2 (3.3)	3.8 (3.4)	10.5 (3.2)	5.3 (3.2)	2.7 (3.3)	1 (3.4)	1.2 (3.4)
Hydrometer Reading 7	% passing	1.8 (1.4)	1.9 (1.4)	25.8 (1.3)	3.6 (1.4)	10.3 (1.4)	5.1 (1.4)	2.6 (1.4)	0.8 (1.4)	1.1 (1.4)

See Notes on Page 6.

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Monthly Report #37, March 2010

Table M — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received by ARCADIS in January 2010

Notes:

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit
UJ - The compound was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection
mg/kg - milligram per kilogram.
Samples analyzed by TestAmerica Laboratories, Inc.
Duplicate results in brackets.